SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check inner board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

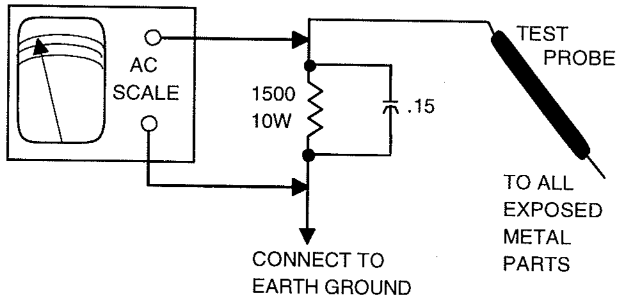
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15μF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500μA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



TEST JIG HOOKUP

Function	Chek-A-Color Adapter No.	PC Board Plug No.	Pin	Color
CRT	B239	P Horiz	E4401	Red
Yoke	D4160		E4402	Blue
Yoke Setting	YP1A	P Vert	E4501	Yellow
Comments	Focus Tap		E4502	Green

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC. Use remote transmitter to set customer controls for normal operation. Momentarily short pin XRP1 to XRP2. The set should lose raster and sound, and then restart. If set does not shut down, the shutdown circuit should be repaired.

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by Howard W. Sams & Company as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to Howard W. Sams & Company by the manufacturers of the specific type of replacement part listed.

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4285

SET 4285

MODEL F27676BCYX1 (CHASSIS CTC187AJ)

RCA

PHOTOFACT® Technical Service Data

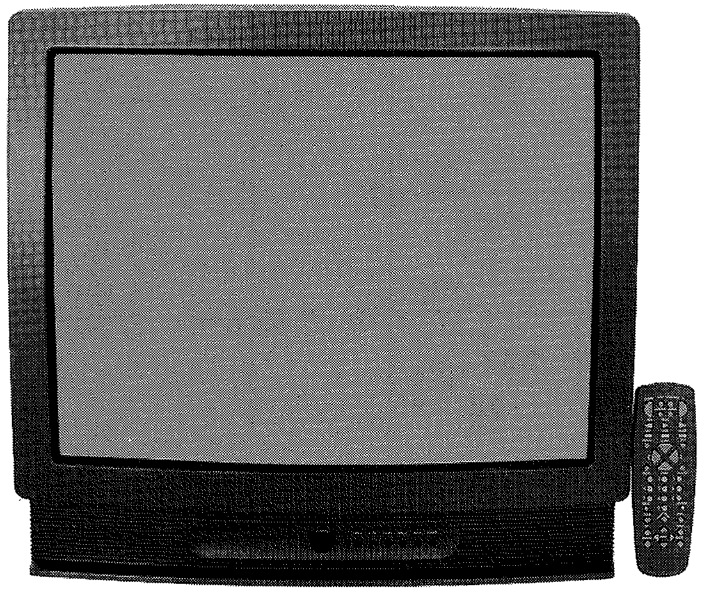
INDEX

GridTrace Location
DBX Stereo Board 4
Main Board 4
High Voltage Shutdown Test 1
IC Functions 4
Important Parts Information 1
Miscellaneous Adjustments 1
Parts List 5, 6
Placement Chart 3
Safety Precautions 1
Schematic Component Location 3
Schematic Notes 2
Schematics
Audio 3
PIP 3
Power Supply 2
System Control 2
Television 2
Tuner 3
Test Equipment 1
Test Jig Hookup 1
Tuner Circuit Voltage Chart 1

For Supplier Address,
See PHOTOFACT Annual Index

RCA

Model F27676BCYX1 (Chassis CTC187AJ)



Representative Model

Essential coverage
for servicing a television receiver...

- **Schematics**
- **Component locations**
- **Parts list**

Coverage includes these additional models and chassis:

MODELS	CHASSIS
F25675BCYX1	CTC187AJ
F27678BCFE1	CTC187AJ
F27678BCYX1	CTC187AJ

4285

HOWARD W. SAMS & COMPANY
APRIL 2000 SET 4285

TUNER CIRCUIT VOLTAGE CHART

Pin No.	VHF Low Band	VHF High Band	UHF Band
U7301			
1	5.4V	5.4V	5.3V
2	2.9V	3.0V	3.2V
3	7.8V	7.7V	7.6V
4	3.0V	3.0V	3.2V
5	7.8V	7.7V	7.6V
6	0V	0V	0V
7	3.0V	3.0V	0V
8	9.0V	9.0V	8.8V
9	3.0V	3.0V	3.3V
10	3.3V	3.2V	2.9V
11	4.9V	5.1V	9.7V
12	3.3V	3.2V	2.9V
13	0V	0V	0V
14	9.1V	9.0V	5.4V
15	3.4V	3.4V	2.9V
16	3.4V	3.4V	2.9V

Pin No.	VHF Low Band	VHF High Band	UHF Band
U7401			
1	1.7V	2.1V	1.7V
2	2.1V	2.1V	2.1V
3	2.1V	2.1V	2.1V
4	4.8V	4.8V	4.8V
5	4.7V	4.7V	4.7V
6	0V	0V	0V
7	1.3V	1.3V	1.3V
8	11.5V	0V	0V
9	7.4V	7.4V	0V
10	4.8V	4.8V	4.8V
11	2.3V	2.3V	2.3V
12	2.3V	2.3V	2.3V
13	0V	0V	0V
14	.6V	.6V	.6V

NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

Pin No.	VHF Low Band	VHF High Band	UHF Band
Q7101			
G1	0V	0V	4.8V
G2	5.0V	6.5V	7.2V
D	.2V	.2V	11.3V
S	.2V	.2V	4.8V
Q7102			
G1	4.6V	4.6V	4.6V
G2	5.3V	6.8V	7.2V
D	11.3V	11.2V	11.4V
S	4.1V	4.2V	11.3V

Pin No.	VHF Low Band	VHF High Band	UHF Band
Q7401			
E	0V	0V	0V
B	.6V	.6V	.6V
C	2.1V	3.8V	17.8V
Q7402			
E	12.0V	12.0V	12.0V
B	11.3V	10.5V	10.6V
C	-14.9V	11.1V	11.2V

Pin No.	VHF Low Band	VHF High Band	UHF Band
Q7403			
E	0V	0V	0V
B	.7V	.7V	0V
C	.1V	.1V	11.3V
Q7404			
E	12.0V	12.0V	12.0V
B	11.0V	10.9V	10.6V
C	.1V	.1V	11.3V

NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

MISCELLANEOUS ADJUSTMENTS

PRETUNING

NOTE: All procedures require an antenna connected and power applied to the receiver.

Auto Program

1. Press the program button to select autoprogram.
2. Press the + button. All available channels are scanned and stored in memory.
3. Press display to clear menu.

Channel Memory

1. Press the program button to select channel memory.
2. Select channel with number buttons or channel up and down buttons.
3. Press + button to add a channel or - button to erase a channel.
4. Repeat steps 2 and 3 to add or erase other channels.
5. When finished, press done button to save selections.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 25kV to 27kV.

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values.

Press menu button on the receiver for collapsed raster service line. Disconnect the antenna. Preset the red, green, and blue drive values to 32. Preset the red, green, and blue bias values to provide 120VDC at the collector of the respective output transistors. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance.

SERVICE MENU

The following adjustment and alignment procedures are accessed thru a service menu using buttons on the receiver. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P 00, and on the right the value of that parameter V 00. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. The three main groups of parameters are, the service adjustment parameters, the chassis alignment parameters, and the tuner alignment parameters. To access and change any of the adjustments, the proper parameter pass number and value must be entered. This information is listed at the beginning of each alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen. To exit the service menu return to P 00.

WARNING: When adjusting the horizontal frequency be careful not to exceed the value range, or the receiver will go into shutdown, and replacement of U3101 may be required. In case the receiver goes into shutdown, connect a capacitor across C4402 with the same value, redo horizontal frequency adjustment, then remove the capacitor. It may be necessary to readjust the horizontal frequency again.

SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	Range	On-Set Value	Comment
00	Pass number for service adjustment parameters	Must set to 76	00	May not advance until value set.
01	Horizontal frequency (see warning)	00 - 63	16	Adjust for stable or slowly moving horizontal lines.
02	Horizontal phase	00 - 15	09	Adjust to center picture left to right.
03	EW DC (Width)	00 - 15	06	Not used in 27" models.
04	EW amplitude	00 - 07	04	Not used in 27" models.
05	Vertical DC	00 - 15	09	Adjust to center picture top to bottom.
06	Vertical size	00 - 31	11	Adjust to 1/4" overscan top and bottom of screen.
07	Red bias	00 - 127	73	Press menu button for setup line.
08	Green bias	00 - 127	46	Press menu button for setup line.
09	Blue bias	00 - 127	68	Press menu button for setup line.
10	Red drive	00 - 63	36	Press menu button for setup line.
11	Green drive	00 - 63	34	Press menu button for setup line.
12	Blue drive	00 - 63	31	Press menu button for setup line.

MISCELLANEOUS ADJUSTMENTS continued

CHASSIS ALIGNMENT PARAMETERS

Parameter No.	Parameter Name	Range	On-Set Value	Comment
13	Pass number for chassis alignment parameters	Must set to 77	00	May not advance to higher parameter until value is set.
14	PLL tuning	00 - 63	35	Apply 4.0V to pin 14 of U1001. Short junction of R7130 and R2313 to ground. Connect 41.25MHz (300mV) marker to pin 1 of SF2301. Connect an oscilloscope to pin 55 of U1001. Adjust value for 2.2µs sinewave.
15	4.5MHz trap	00 - 07	03	Short junction of R7130 and R2313 to ground. Apply 45.75MHz (300mV) and 41.25MHz (100mV) to pin 1 of SF2301. Connect an oscilloscope to pin 63 of U1001, and adjust value for minimum 4.5MHz sinewave.
16	Video level	00 - 07	03	Tune in a color bar pattern, 100% modulation, super pulse display. Connect oscilloscope to pin 63 of U1001. Adjust value range to produce 2.0Vp-p waveform.
17	FM level	00 - 15	07	Connect signal generator to pin 55 of U1001, inject 4.5MHz carrier, 1kHz modulation, with 25kHz deviation. Apply 4.0V to pin 14 of U1001. Connect oscilloscope to pin 3 of U1001, and adjust value range for 1.2Vp-p of 1kHz component.
18	B+ trim	00 - 15	07	-
19	RF AGC (1)	00 - 31	21	Manually tune channel 6.
20	D-PIP chroma	00 - 127	00	Not used.
21	D-PIP tint	00 - 255	00	Not used.
22	D-PIP brightness	00 - 31	00	Not used.
23	D-PIP contrast	00 - 63	00	Not used.
24	Factory tint	00 - 63	28	-
25	Input level	00 - 15	08	Refer to Stereo Adjustments section.
26	Stereo VCO	00 - 63	24	Refer to Stereo Adjustments section.
27	SAP VCO	00 - 15	07	Set value to 06.
28	SAP low pass filter	00 - 63	20	Set value to 18.
29	SAP band pass filter	00 - 15	09	Set value to 08.
30	Wideband separation	00 - 63	33	Refer to Stereo Adjustments section.
31	Spectral separation	00 - 63	32	Refer to Stereo Adjustments section.

(1) RF AGC has been preset at time of manufacture for optimum operation over a wide range of RF signal input conditions. Readjustment should not be required unless the tuner has been repaired, U1001, U3101, or U3201 has been replaced, or unusual signal conditions exist. Use weakest local signal to adjust RF AGC parameter setting.

ELECTRONIC TUNER ALIGNMENT PARAMETERS

Use tuner service modulator, RCA stock no. 215568, and a VCR for signal source. Monitor RF AGC at the positive end of C2306 or at pin 12 of U1001, and adjust for minimum voltage at each parameter. The entire Electronic Tuner Alignment procedure, once started, must be completed in its entirety. Electronic Tuner Alignment is performed with top and bottom tuner covers in place with bottom cover soldered.

Parameter No.	Parameter Name	Range	On-Set Value
32	Pass number for tuner alignment parameters	Must set to 78	00
100	Ch. 2 secondary	00-63	27
101	Ch. 2 primary	00-63	23
102	Ch. 2 single	00-63	10
103	Ch. 6 secondary	00-63	62
104	Ch. 6 primary	00-63	51
105	Ch. 6 single	00-63	52
106	Ch. 14 secondary	00-63	63
107	Ch. 14 primary	00-63	57
108	Ch. 14 single	00-63	30
109	Ch. 17 secondary	00-63	33
110	Ch. 17 primary	00-63	46
111	Ch. 17 single	00-63	22
112	Ch. 18 secondary	00-63	49
113	Ch. 18 primary	00-63	29
114	Ch. 18 single	00-63	40
115	Ch. 13 secondary	00-63	61
116	Ch. 13 primary	00-63	41
117	Ch. 13 single	00-63	49
118	Ch. 34 secondary	00-63	63
119	Ch. 34 primary	00-63	40
120	Ch. 34 single	00-63	52
121	Ch. 37 secondary	00-63	63
122	Ch. 37 primary	00-63	39
123	Ch. 37 single	00-63	50
124	Ch. 48 secondary	00-63	44
125	Ch. 48 primary	00-63	27
126	Ch. 48 single	00-63	32
127	Ch. 50 secondary	00-63	34
128	Ch. 50 primary	00-63	23
129	Ch. 50 single	00-63	22
130	Ch. 51 secondary	00-63	39
131	Ch. 51 primary	00-63	34
132	Ch. 51 single	00-63	36
133	Ch. 57 secondary	00-63	41
134	Ch. 57 primary	00-63	31
135	Ch. 57 single	00-63	31
136	Ch. 63 secondary	00-63	42
137	Ch. 63 primary	00-63	27
138	Ch. 63 single	00-63	27
139	Ch. 76 secondary	00-63	43
140	Ch. 76 primary	00-63	25
141	Ch. 76 single	00-63	20
142	Ch. 83 secondary	00-63	44
143	Ch. 83 primary	00-63	26
144	Ch. 83 single	00-63	22
145	Ch. 93 secondary	00-63	46
146	Ch. 93 primary	00-63	29
147	Ch. 93 single	00-63	25
148	Ch. 110 secondary	00-63	49
149	Ch. 110 primary	00-63	30
150	Ch. 110 single	00-63	24
151	Ch. 117 secondary	00-63	55
152	Ch. 117 primary	00-63	33
153	Ch. 117 single	00-63	24
154	Ch. 125 secondary	00-63	63
155	Ch. 125 primary	00-63	42
156	Ch. 125 single	00-63	19

MISCELLANEOUS ADJUSTMENTS continued

MECHANICAL TUNER COIL ALIGNMENT

The tuner coil alignment is preset at the time of manufacture and should require no further adjustment. The following recommended procedure should be performed only in event a complete tuner alignment is necessary, which is unlikely. Use plastic or wooden tool to knife coils. This procedure is performed with top tuner cover removed and bottom tuner cover in place and soldered. Tuner service modulator RCA stock No. 215568 is used in this procedure.

1. Manually tune the receiver and the tuner service modulator to channel 125 (band 3) and enter parameter 154.
2. Connect digital volt meter to tuner side of R7525.
3. Check for voltage reading between 4.55V and 4.75V, if not expand or compress L7303 to set voltage within these limits.
4. Manually tune the receiver and the tuner service modulator to channel 50 (band 2) and enter parameter 127.
5. While digital volt meter is still connected to R7525, check for voltage reading between 4.8V and 5V, if not expand or compress L7304 to set voltage within these limits.
6. Manually tune the receiver and the tuner service modulator to channel 17 (band 1) and enter parameter 109.
7. While digital volt meter is still connected to R7525, check for voltage reading between 4.4V and 4.6V, if not expand or compress L7305 to set voltage within these limits.
8. Manually tune the receiver and the tuner service modulator to channel 125 (band 3) and enter parameter 154.
9. Connect digital volt meter to positive side of C7503 (RF AGC to tuner).
10. Set parameter value range to 31.
11. Expand or compress L7105 for minimum RF AGC voltage.
12. Enter parameter 155 and set parameter value range to 31.
13. Expand or compress L7104 for minimum RF AGC voltage.
14. Enter parameter 156 and set parameter value range to 31.
15. Expand or compress L7102 for minimum RF AGC voltage.
16. Manually tune the receiver and the tuner service modulator to channel 50 (band 2) and enter parameter 127.
17. Set parameter value range to 31.
18. Expand or compress L7113 for minimum RF AGC voltage.
19. Enter parameter 128 and set parameter value range to 31.
20. Expand or compress L7111 for minimum RF AGC voltage.
21. Enter parameter 129 and set parameter value range to 31.
22. Expand or compress L7107 for minimum RF AGC voltage.
23. Manually tune the receiver and the tuner service modulator to channel 17 (band 1) and enter parameter 109.
24. Set parameter value range to 31.
25. Expand or compress L7114 for minimum RF AGC voltage.
26. Enter parameter 110 and set parameter value range to 31.
27. Expand or compress L7112 for minimum RF AGC voltage.
28. Enter parameter 111 and set parameter value range to 31.
29. Expand or compress L7106 for minimum RF AGC voltage.
30. Perform the entire Electronic Tuner Alignment.

STEREO ADJUSTMENTS

NOTE: Adjustments were made using a MTS/stereo generator connected to the antenna terminal.

Input Level

Turn stereo expander off. Enter parameter 25. Set stereo generator output to pilot, 300Hz, and L + R. Connect an oscilloscope to connector JS6 (see pin 5 of U1001, page 3B). Adjust the parameter value for an output level of 2.2Vp-p. Do not measure noise. Connect a dual oscilloscope to connector JS6 (see pin 5 of U1001, page 3B) and connector JS5 (see pin 4 of U1001, page 3B). Confirm that outputs are within ± 25mVp-p of each other.

Stereo VCO

Enter parameter 26. Set stereo generator to pilot, 300 Hz and L+R. Connect a frequency counter to connector JS6 (see pin 5 of U1001, page 3B). Adjust the parameter value for frequency of 62936Hz ± 200Hz.

Wideband/Spectral Separation

Set volume to midrange. Set stereo generator to pilot, 300Hz and L. Connect oscilloscope to JS6 (see pin 5 of U1001, page 3B). Enter parameter 30. Adjust value to 20. Increase parameter value slowly for a minimum amplitude of waveform. Enter parameter 31. Change stereo generator to 3kHz. Set parameter value to 20. Increase parameter value slowly for a minimum amplitude of waveform.

NOTE: If stereo generator does not have 3kHz setting or if parameter 31 does not adjust the same as parameter 30, set parameter 31 to a value of 31 and confirm parameter 30 is adjusted for minimum amplitude at 3kHz or highest generator setting.

Important Parts Information

- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Or consult the Sams *Annual Index* for the address of the original equipment manufacturer.

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

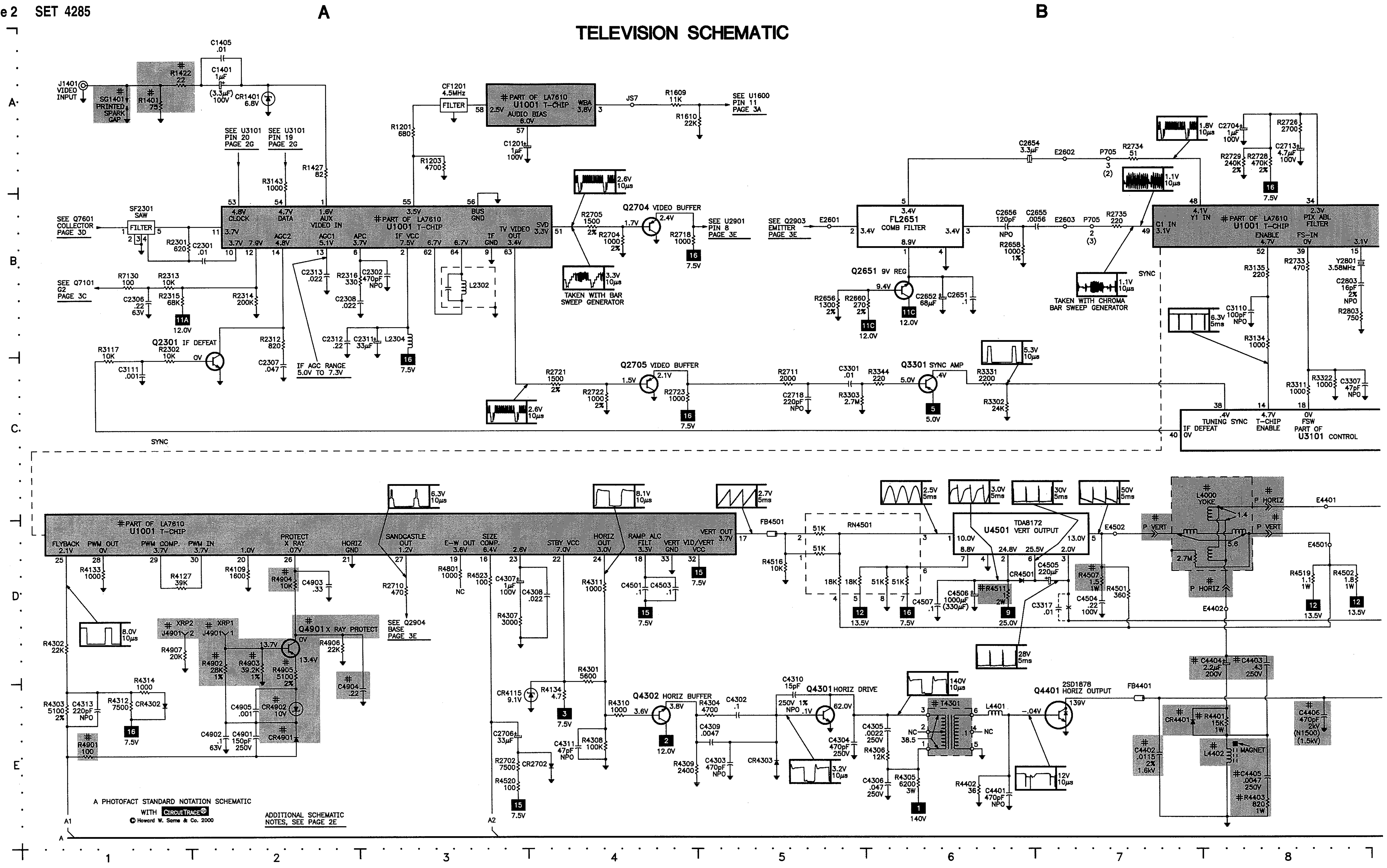
- Custom Components Corporation (Chek-A-Color)
- NTE Electronics, Inc. (NTE)
- Philips ECG Company (ECG)
- Terrell & Nobis (TNI Electronics)
- Sencore, Inc.

TEST EQUIPMENT

Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR570
Generators		Capacitance Analyzer	LC102
RGB	CM2125	CRT Analyzer	CR7000
Multiburst Signal	VG91	AC Leakage Tester	PR570
Color Bar	VG91	Inductance Analyzer	LC102
TV Stereo	VG91	Flyback Yoke Tester	TVA92
Digital VOM	SC3100	Field Strength Meter	SL753
Frequency Meter	SC3100	Transistor Tester	TF46
Hi-Voltage Probe	HP200	Horizontal Analyzer	HA-2500
Accessory Probes	TP212	Video Analyzer	VG91, TVA92

TELEVISION SCHEMATIC



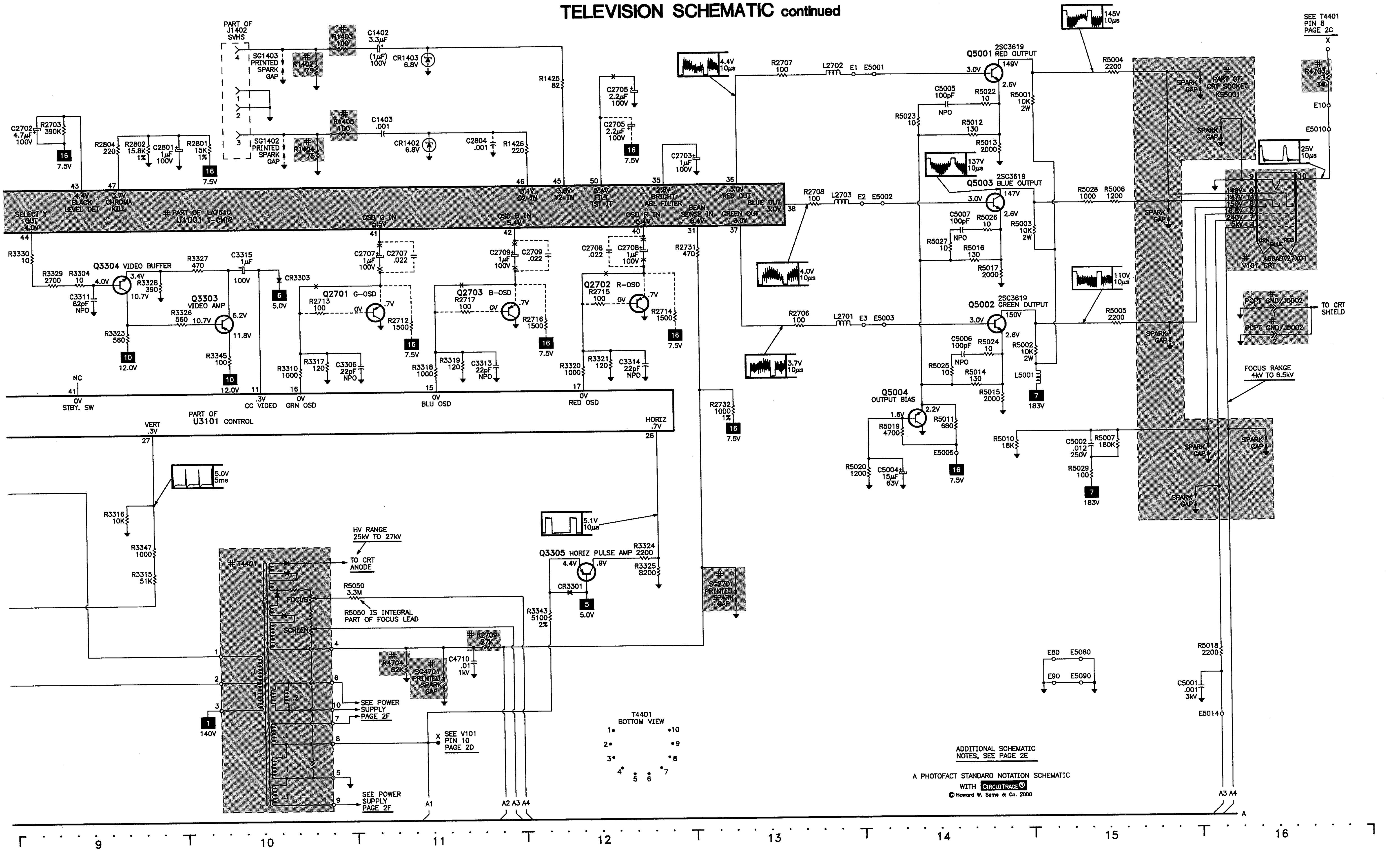
A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CircuitTrace®

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

C

D

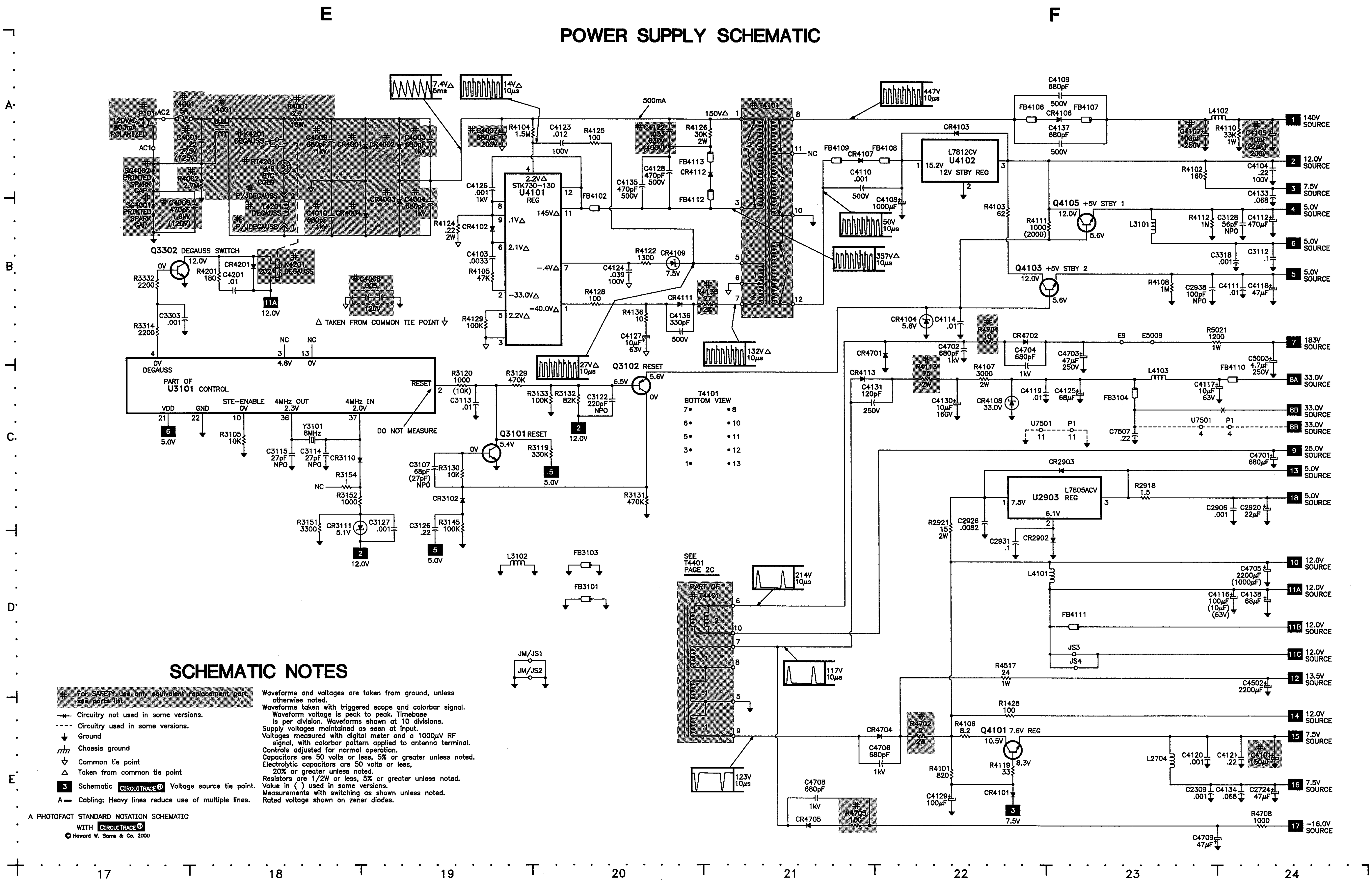
TELEVISION SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE®

POWER SUPPLY SCHEMATIC



SCHEMATIC NOTES

# For SAFETY use only equivalent replacement part, see parts list.

—×— Circuitry not used in some versions.

- - - - Circuitry used in some versions.

⏚ Ground

Chassis ground

▽ Common tie point

△ Taken from common tie point

3 Schematic CIRCUITTRACE® Voltage source tie point.

A — Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless otherwise noted.
Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.
Supply voltages maintained as seen at input.
Voltages measured with digital meter and a 1000µV RF signal, with colorbar pattern applied to antenna terminal.
Controls adjusted for normal operation.
Capacitors are 50 volts or less, 5% or greater unless noted.
Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.
Resistors are 1/2W or less, 5% or greater unless noted.
Value in ( ) used in some versions.
Measurements with switching as shown unless noted.
Rated voltage shown on zener diodes.

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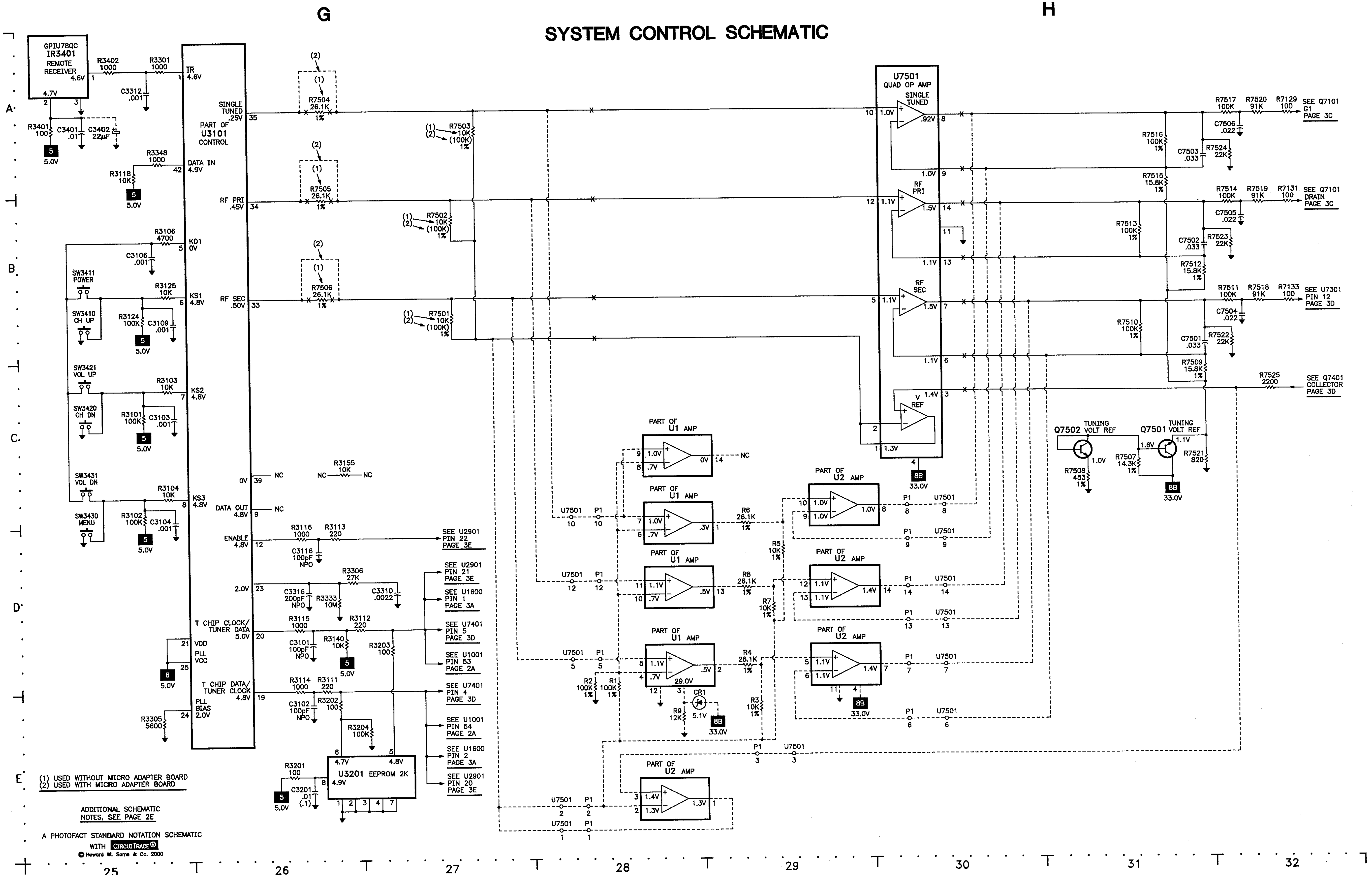
WITH CIRCUITTRACE®

SYSTEM CONTROL SCHEMATIC



(1) USED WITHOUT MICRO ADAPTER BOARD
(2) USED WITH MICRO ADAPTER BOARD

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

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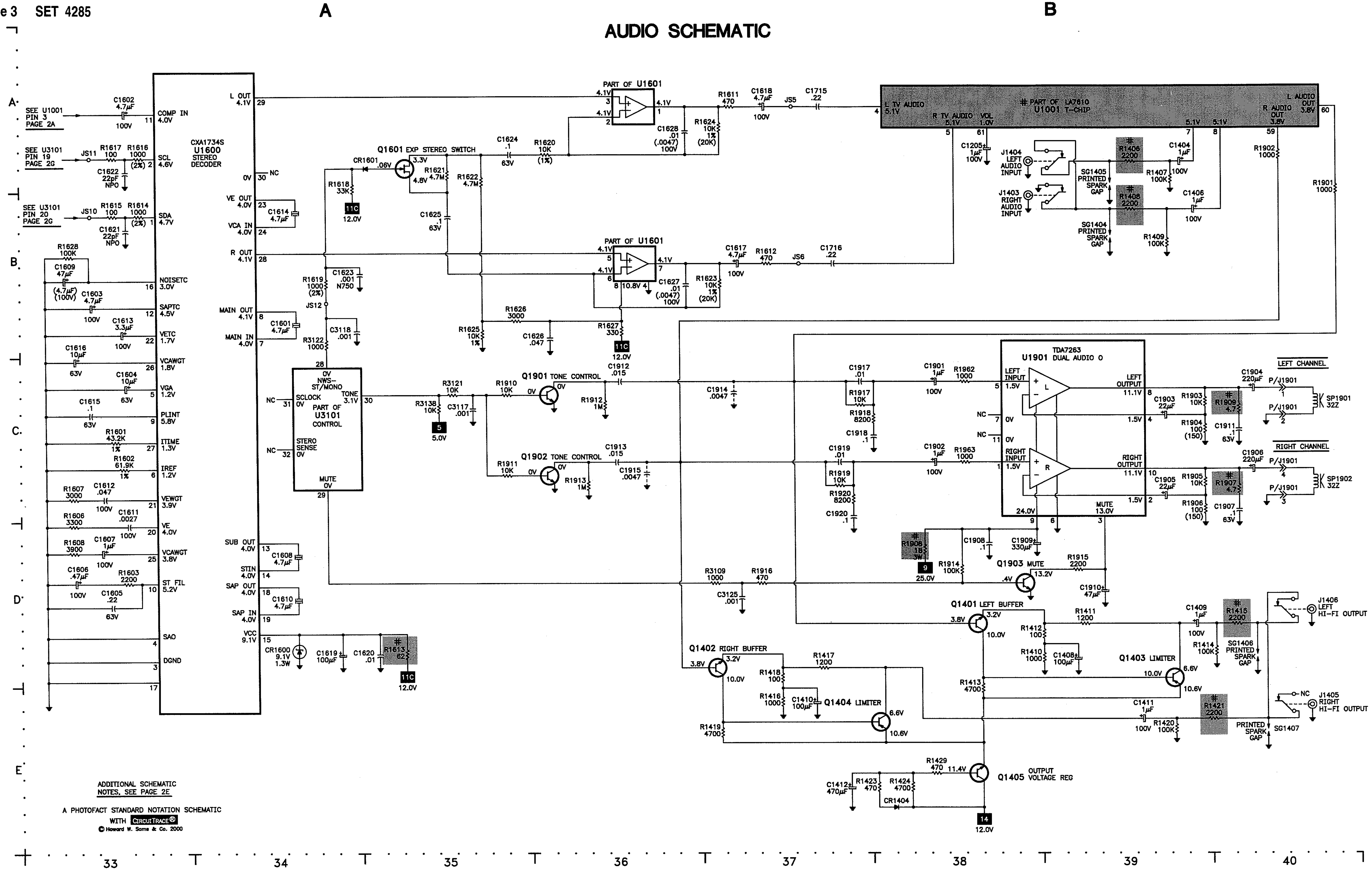
RCA

MODEL F27676BCYX1 (CHASSIS CTC187AJ)

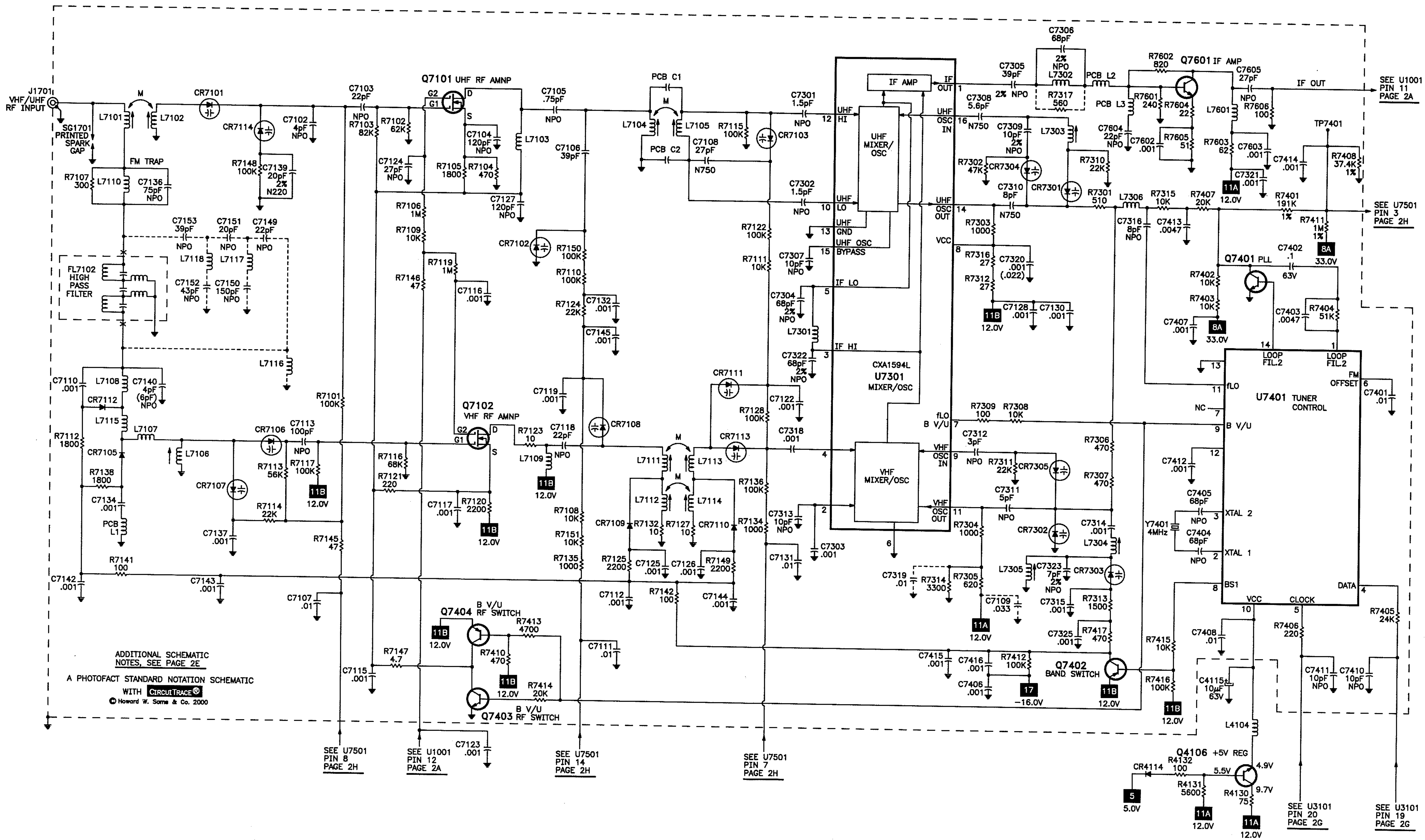
AUDIO SCHEMATIC



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

TUNER SCHEMATIC

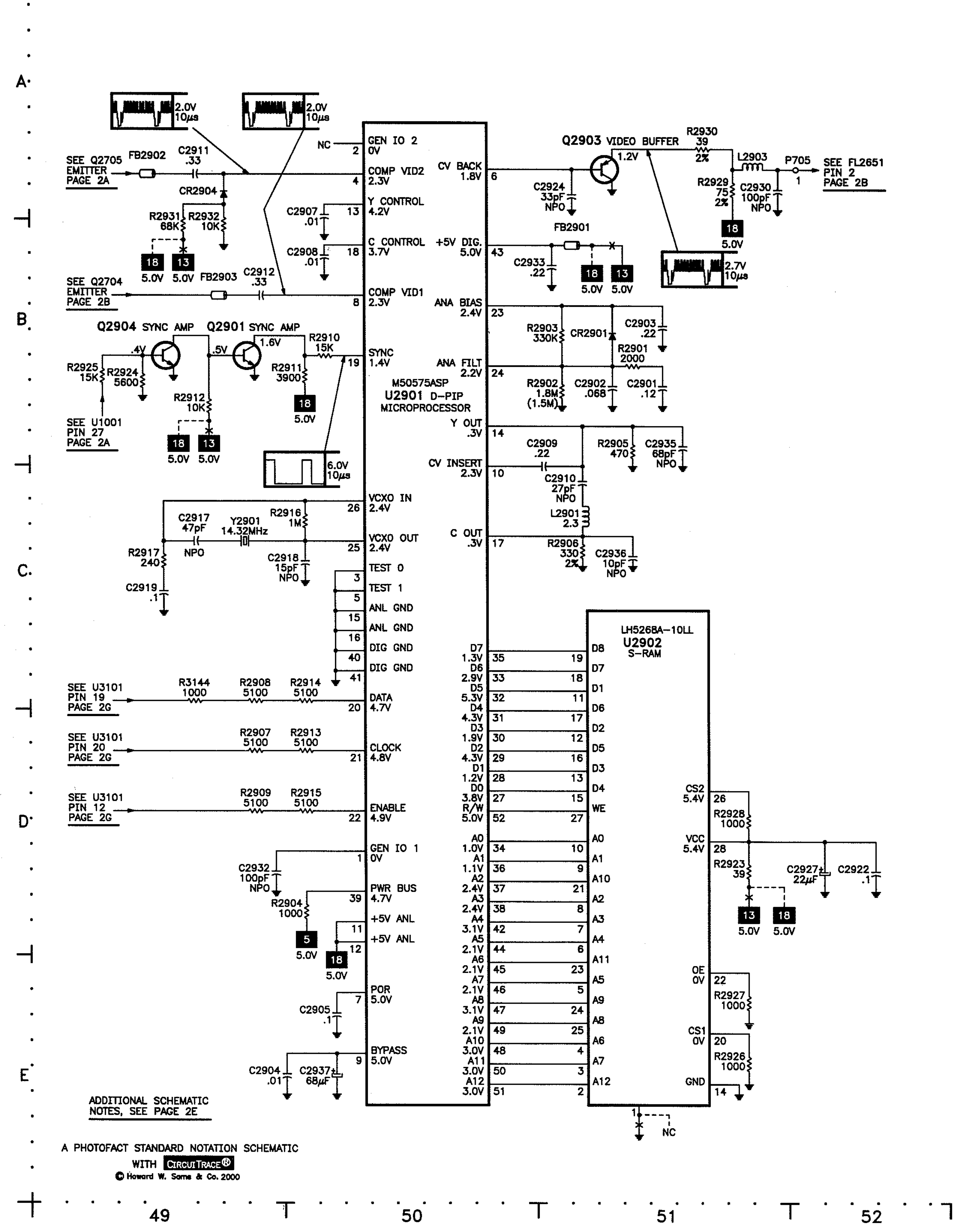


ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CircuitTrace®

E

PIP SCHEMATIC



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CircuitTrace®

SCHEMATIC COMPONENT LOCATION GUIDE

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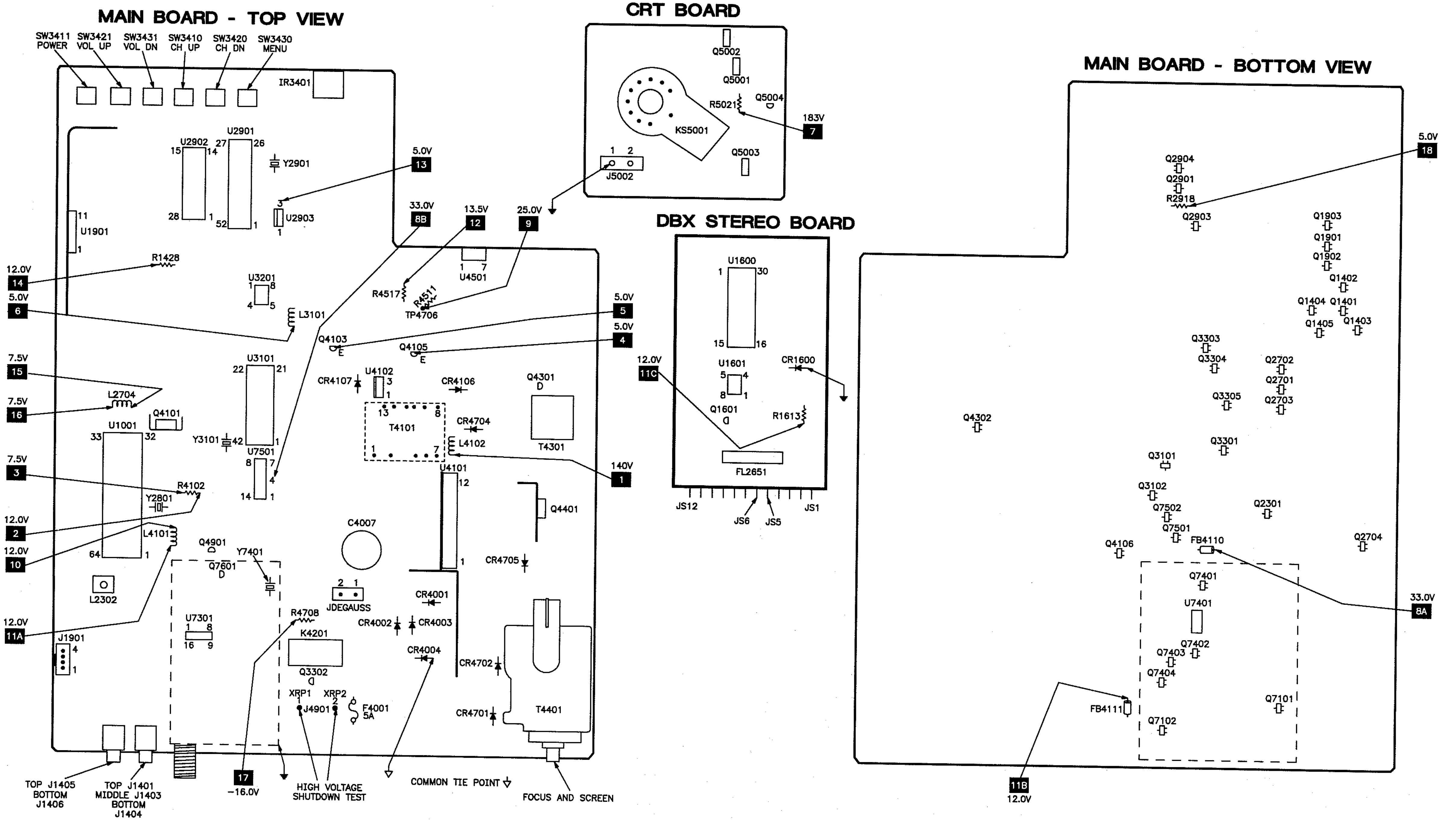
U1	D28
U1	D28
U1	D28
U2	C29
U2	D29
U2	D29
U2	E28
U1001	A39
U1001	A4
U1001	B10
U1001	B3
U1001	B8
U1001	D1
U1600	A34
U1601	A36
U1601	B36
U1901	C38
U2901	B50
U2902	C51
U2903	C23
U3101	A26
U3101	C10
U3101	C18
U3101	C34
U3101	C8
U3201	E26
U4101	B20
U4102	A22
U4501	D6
U7301	C45
U7401	C47
U7501	A30
V101	B16
Y2801	B8
Y2901	C49
Y3101	C18
Y7401	C47

PLACEMENT CHART



RCA

MODEL F27676BCYX1 (CHASSIS CTC187AJ)

IC FUNCTIONS

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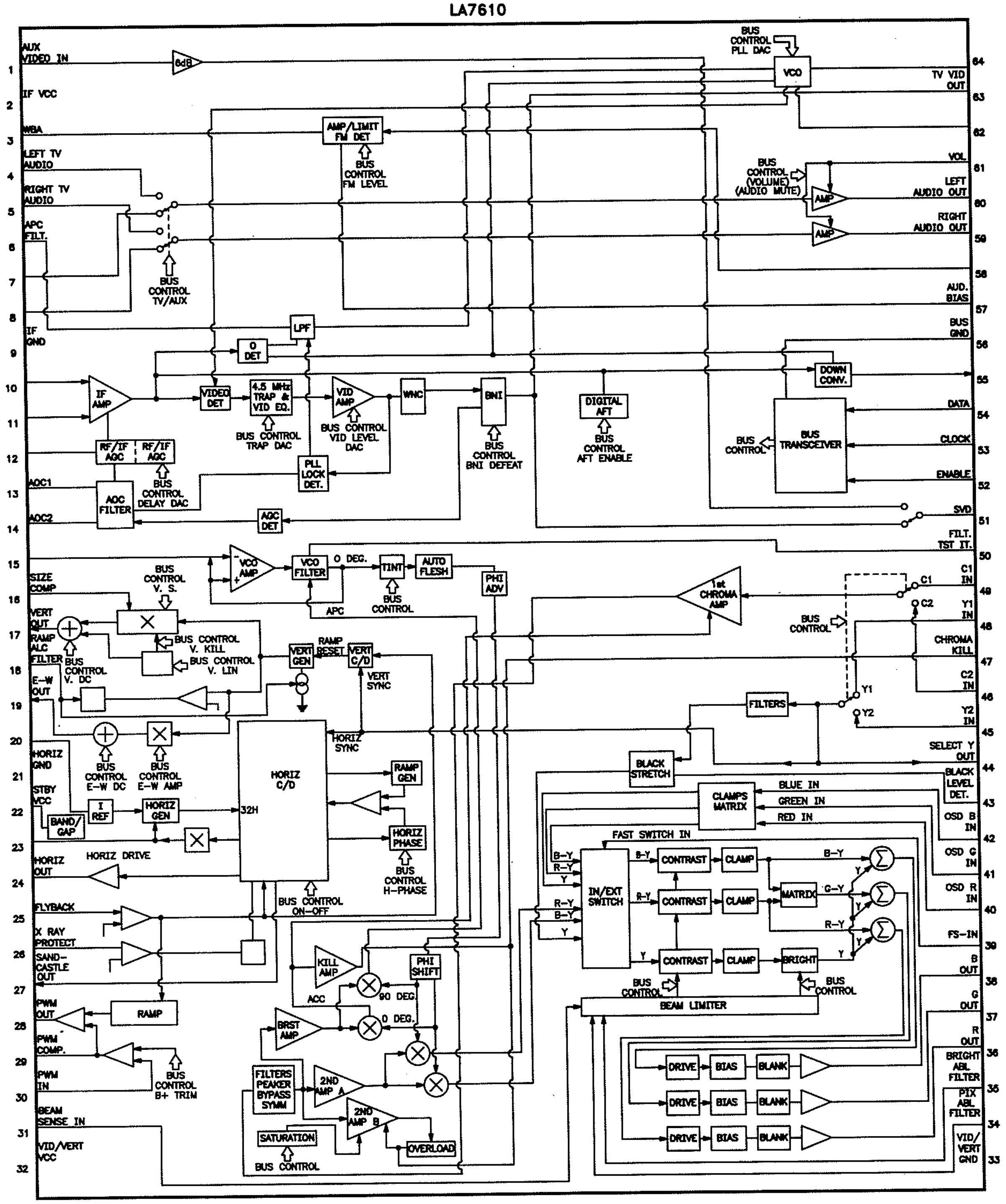

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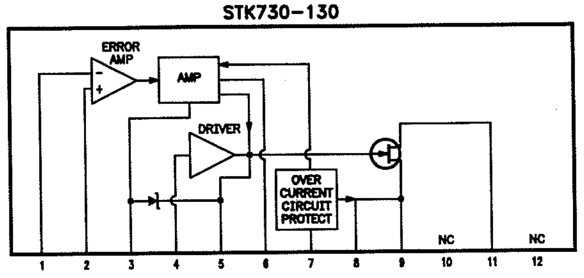

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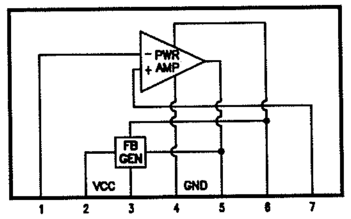

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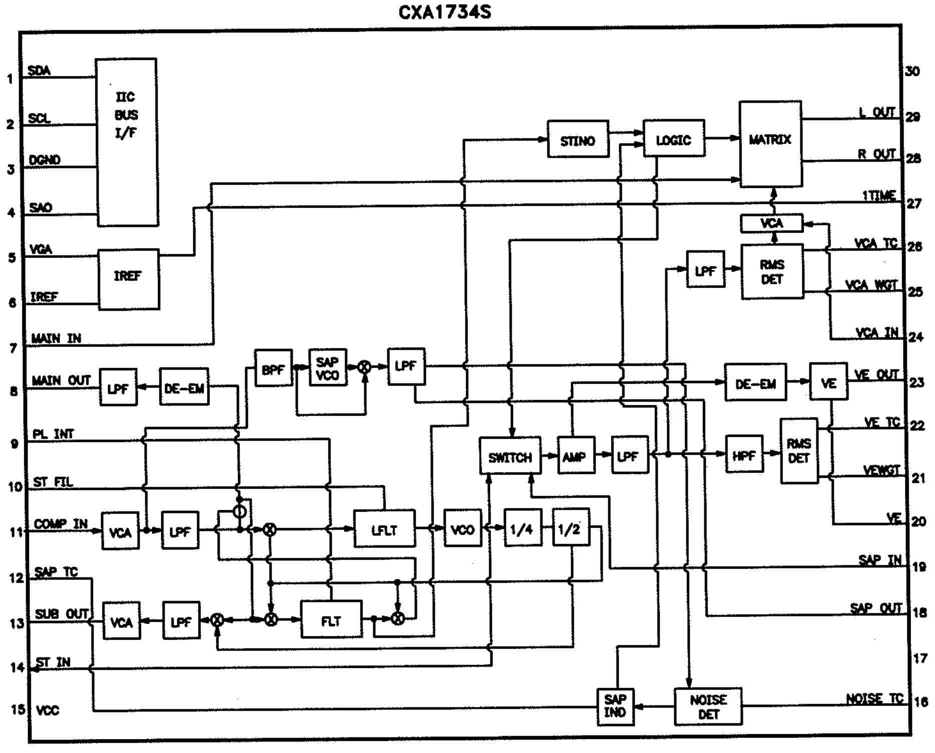
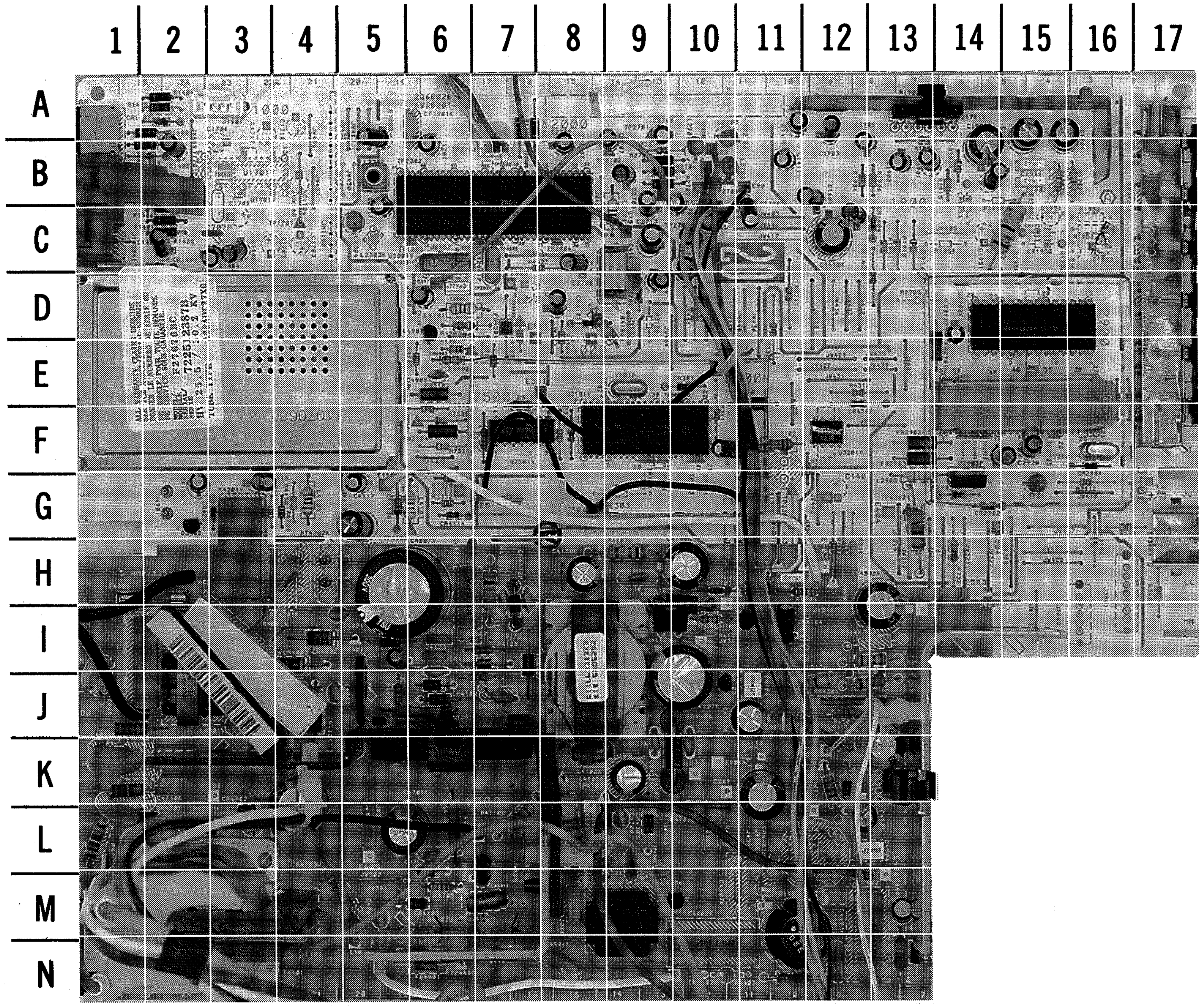


MAIN BOARD - TOP VIEW



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MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C1201	B-6
C1205	A-5
C1401	C-2
C1402	B-2
C1404	C-3
C1406	C-3
C1408	B-12
C1409	A-11
C1410	C-12
C1411	B-11
C1412	C-12
C1901	B-13
C1902	B-13
C1903	A-12
C1904	A-15
C1905	B-12
C1906	A-15
C1907	B-15
C1909	B-14
C1910	B-14
C1911	B-15
C2306	D-6
C2311	B-5
C2702	C-10
C2703	B-9
C2704	B-10
C2705	C-10
C2706	C-8
C2707	A-9
C2708	A-9
C2709	B-8
C2713	B-9
C2724	C-11
C2801	C-10
C2920	F-15
C2927	D-14
C2937	F-15
C3315	F-10
C4001	I-2
C4003	J-4
C4004	I-4
C4006	I-1
C4007	H-5
C4008	K-1
C4009	J-3
C4010	J-3
C4101	C-9
C4104	J-11
C4105	K-9
C4107	J-10
C4108	H-10
C4109	K-10
C4110	H-9
C4112	J-11
C4115	G-3
C4116	D-6
C4117	G-5
C4118	I-11
C4122	H-6
C4123	I-6
C4124	I-6
C4125	G-5
C4126	J-7
C4127	I-5
C4128	H-7
C4129	D-9
C4130	H-8
C4131	L-6
C4135	H-7
C4136	I-6
C4137	K-9
C4138	G-2
C4304	M-9
C4305	L-8
C4306	M-8
C4307	D-8
C4310	L-9
C4402	N-10
C4403	M-13
C4404	M-13
C4405	N-12
C4406	N-8
C4502	I-13
C4504	L-12
C4505	L-12
C4506	K-13
C4701	L-5
C4702	L-2
C4703	L-4
C4704	L-3
C4705	K-11
C4706	L-9
C4708	M-5
C4709	L-7
C4710	L-1
C4901	H-11
C4902	H-11
C4905	E-6
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CR1401	C-2
CR1402	A-2
CR1403	B-2
CR1404	C-13
CR2702	D-9
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CR2902	G-14
CR2903	G-14
CR3301	E-10
CR4001	J-4
CR4002	I-4
CR4003	I-4
CR4004	J-3
CR4101	D-8
CR4102	J-6
CR4103	H-10
CR4104	I-11
CR4106	K-10
CR4107	H-10
CR4108	G-5
CR4109	I-7
CR4111	J-6
CR4112	H-7
CR4113	M-6
CR4114	G-6
CR4201	G-3
CR4302	E-12
CR4303	L-9
CR4401	N-13
CR4501	K-12
CR4701	L-2
CR4702	L-3
CR4704	L-9
CR4705	M-6
CR4901	H-11
CR4902	E-6
F4001	H-2
FB2901	E-14
FB2902	F-13
FB2903	F-13
FB3101	E-11
FB3103	E-6
FB3104	F-6
FB4102	I-7
FB4106	J-10
FB4107	K-10
FB4112	I-7
FB4113	H-7
FB4401	N-6
FB4501	D-7
IR3401	G-17
J1401	C-1
J1402	A-1
J1403	C-1
J1404	C-1
J1405	B-2
J1406	B-2
K4201	G-3
L2302	B-5
L2304	C-5
L2701	B-10
L2702	B-10
L2703	B-10
L2704	C-9
L2901	G-15
L2903	G-13
L3101	G-11
L3102	F-11
L4001	J-2
L4101	D-6
L4102	K-8
L4103	G-6
L4104	G-4
L4401	M-7
L4402	N-11
P705	B-7
Q3302	G-2
Q4101	C-9
Q4103	I-11
Q4105	J-10
Q4301	M-10
Q4401	N-7
Q4901	D-6
R1401	C-2
R1402	A-2
R1403	B-2
R1404	A-2
R1405	A-2
R1406	B-2
R1408	B-2
R1415	B-2
R1421	B-2
R1422	C-2
R1425	A-7
R1426	A-7
R1428	D-13
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R1904	B-12
R1905	A-13
R1906	B-13
R1907	B-15
R1908	C-15
R1909	B-16
R1910	C-13
R1911	C-13
R1914	B-14
R1915	B-14
R1916	C-13
R2706	B-9
R2707	B-9
R2708	B-9
R2709	K-1
R2711	D-11
R2718	A-7
R2732	H-14
R2733	B-9
R2904	E-16
R2912	G-16
R2921	G-13
R3102	H-16
R3143	D-10
R3154	F-8
R3203	F-12
R3311	F-10
R3315	G-11
R3329	D-11
R3332	G-6
R3343	H-12
R3348	F-8
R3401	G-16
R3402	H-17
R4001	I-3
R4002	J-1
R4103	I-10
R4104	I-5
R4105	J-6
R4106	D-8
R4107	H-9
R4110	L-7
R4111	I-10
R4113	L-6
R4122	I-7
R4124	J-6
R4125	I-7
R4126	H-7
R4128	J-5
R4130	G-4
R4131	G-3
R4135	J-7
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R4306	M-8
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R4312	E-12
R4401	N-13
R4402	M-7
R4403	N-11
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R4704	L-1
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R7525	F-6
RN4501	J-12
RT4201	H-4
SF2301	C-6
SW3410	D-17
SW3411	B-17
SW3420	E-17
SW3421	B-17
SW3430	F-17
SW3431	C-17
T4101	I-8
T4301	M-9
T4401	M-2
U1001	C-5
U1901	A-14
U2901	F-14
U2902	E-14
U2903	G-14
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U3201	F-12
U4101	K-5
U4102	I-9
U4501	K-13
U7501	F-7
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XRP2	G-2
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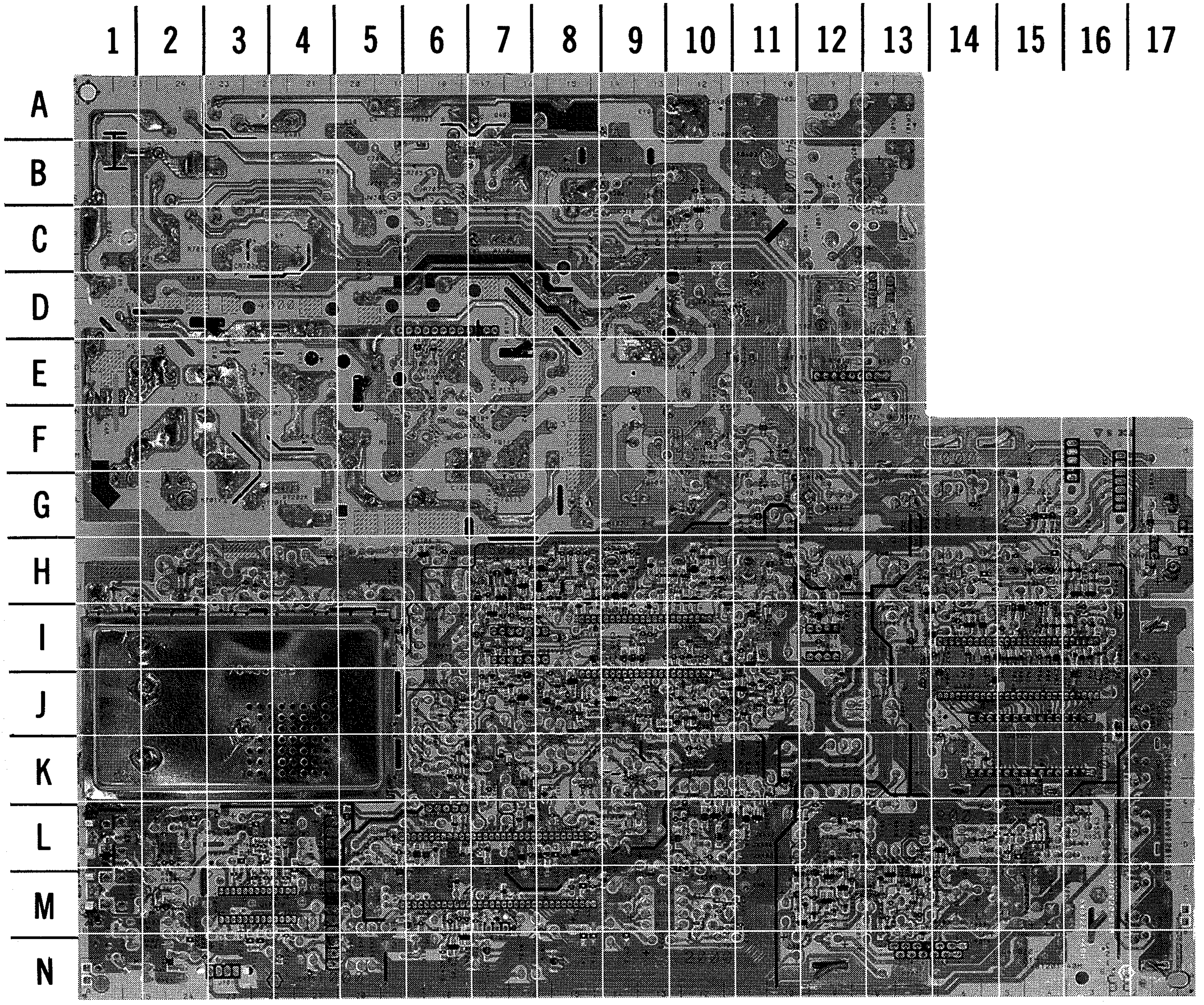
Y3101	E-9

MAIN BOARD - BOTTOM VIEW



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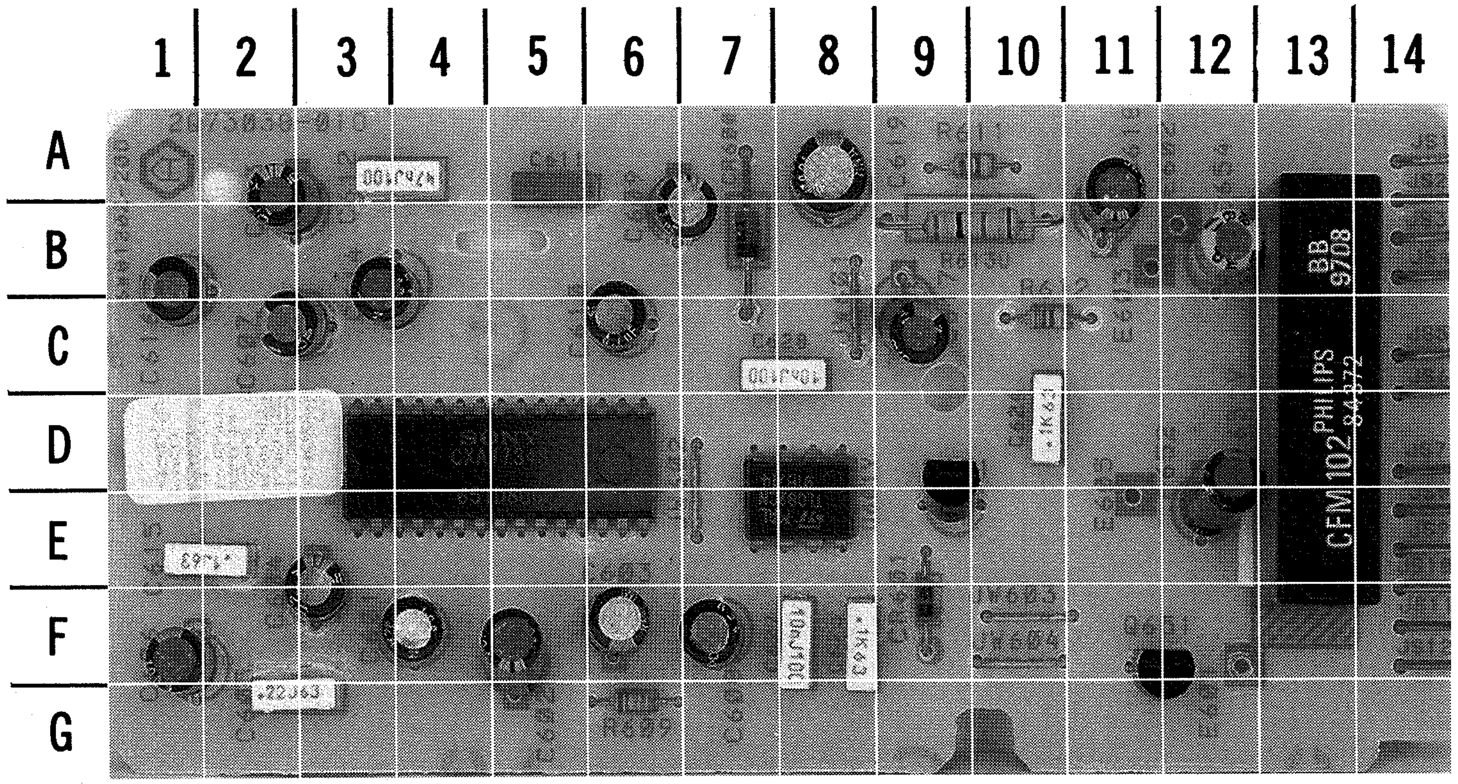
MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C1403	N-2	C3201	I-12	Q2705	N-6	R2731	L-8	R3201	I-12	R7509	I-7
C1405	L-2	C3301	J-8	Q2901	H-16	R2734	M-7	R3202	I-12	R7510	I-7
C1715	L-6	C3303	H-7	Q2903	I-14	R2735	M-7	R3204	I-12	R7511	I-7
C1716	L-6	C3306	H-11	Q2904	H-16	R2801	L-10	R3301	I-8	R7513	J-7
C1908	M-15	C3307	J-11	Q3101	H-8	R2802	L-10	R3302	I-8	R7514	J-7
C1912	M-13	C3310	I-10	Q3102	H-7	R2803	K-7	R3303	J-8	R7516	J-8
C1913	M-13	C3311	I-11	Q3301	J-9	R2804	M-7	R3304	J-11	R7517	J-7
C1917	M-13	C3312	H-9	Q3303	I-11	R2901	I-16	R3305	I-10	R7521	H-7
C1918	L-13	C3313	H-11	Q3304	J-11	R2902	I-16	R3306	I-10	R7522	I-8
C1919	M-13	C3314	I-11	Q3305	J-10	R2903	I-16	R3310	I-10	R7523	J-7
C1920	M-13	C3316	I-10	Q4106	H-6	R2905	I-15	R3314	I-8	R7524	J-7
C2301	L-6	C3318	J-10	Q4302	C-10	R2906	I-15	R3316	I-9		
C2302	L-6	C3401	H-17	Q7501	H-7	R2907	H-16	R3317	K-11		
C2307	L-7	C4103	E-6	Q7502	I-7	R2908	H-16	R3318	I-10		
C2308	L-6	C4111	F-11	R1201	N-6	R2909	H-16	R3319	K-10		
C2309	L-5	C4114	D-11	R1203	M-6	R2910	I-15	R3320	I-11		
C2312	M-5	C4119	H-4	R1407	L-2	R2911	I-15	R3321	K-11		
C2313	L-6	C4120	L-8	R1409	L-2	R2913	I-15	R3322	J-10		
C2718	J-9	C4121	L-8	R1410	M-12	R2914	I-15	R3323	J-11		
C2803	L-7	C4133	K-7	R1411	M-12	R2915	I-16	R3324	J-10		
C2901	J-16	C4134	M-9	R1412	M-12	R2916	I-16	R3325	I-10		
C2902	I-16	C4201	H-2	R1413	M-12	R2917	I-16	R3326	J-11		
C2903	I-15	C4302	C-10	R1414	M-2	R2918	I-15	R3327	I-10		
C2904	I-14	C4303	B-9	R1416	L-12	R2923	K-14	R3328	I-11		
C2905	I-14	C4308	L-8	R1417	M-12	R2924	H-16	R3330	M-8		
C2906	I-14	C4309	C-10	R1418	M-12	R2925	H-15	R3331	J-9		
C2907	I-15	C4311	M-8	R1419	L-12	R2926	K-15	R3333	I-10		
C2908	I-15	C4313	H-12	R1420	M-2	R2927	K-15	R3344	J-8		
C2909	I-15	C4401	B-7	R1423	L-12	R2928	K-14	R3345	J-11		
C2910	I-15	C4501	L-9	R1424	L-12	R2929	I-15	R3347	J-10		
C2911	I-14	C4503	L-9	R1427	L-5	R2930	I-14	R4101	K-9		
C2912	I-14	C4507	D-13	R1429	L-12	R2931	H-13	R4102	D-7		
C2917	I-16	C4903	L-7	R1901	M-12	R2932	I-14	R4108	G-11		
C2918	I-16	C4904	K-6	R1902	M-12	R3101	H-9	R4109	L-7		
C2919	J-16	C7109	L-4	R1912	M-13	R3103	H-9	R4112	F-11		
C2922	K-14	C7123	I-1	R1913	M-13	R3104	H-9	R4119	K-9		
C2924	I-14	C7501	I-8	R1917	M-13	R3105	I-9	R4127	K-8		
C2926	H-13	C7502	I-7	R1918	M-13	R3106	H-8	R4129	E-6		
C2930	I-13	C7503	J-8	R1919	M-13	R3109	J-10	R4132	H-6		
C2931	H-14	C7504	I-7	R1920	M-13	R3111	H-10	R4133	L-8		
C2932	I-14	C7505	J-6	R1962	M-13	R3112	H-10	R4134	L-7		
C2933	J-14	C7506	J-7	R1963	M-13	R3113	H-9	R4136	E-5		
C2935	I-15	C7507	H-7	R2301	K-6	R3114	H-10	R4201	H-2		
C2936	I-15	CR2904	I-13	R2302	K-6	R3115	H-10	R4301	L-7		
C2938	J-16	CR3102	H-8	R2312	L-7	R3116	I-9	R4302	K-8		
C3101	H-10	CR3110	J-8	R2313	K-6	R3117	J-8	R4304	C-10		
C3102	H-10	CR3111	J-7	R2314	L-6	R3118	H-8	R4307	K-7		
C3103	H-9	CR3303	I-10	R2315	K-6	R3119	H-8	R4308	L-8		
C3104	H-9	CR4115	L-7	R2316	L-6	R3120	H-8	R4309	B-10		
C3106	H-9	FB4108	I-10	R2702	K-8	R3121	J-10	R4311	L-8		
C3107	H-8	FB4109	H-9	R2703	L-10	R3122	J-10	R4314	J-12		
C3109	H-9	FB4110	I-6	R2704	M-6	R3124	H-8	R4516	G-14		
C3110	H-10	FB4111	H-3	R2705	M-6	R3125	H-9	R4520	K-8		
C3111	J-8	Q1401	M-12	R2710	K-8	R3129	H-8	R4801	L-7		
C3112	I-10	Q1402	M-12	R2712	L-10	R3130	H-8	R7129	H-1		
C3113	H-8	Q1403	M-12	R2713	K-11	R3131	H-8	R7130	H-1		
C3114	I-9	Q1404	M-12	R2714	L-11	R3132	H-7	R7131	H-3		
C3115	I-9	Q1405	M-12	R2715	K-11	R3133	H-7	R7133	H-3		
C3116	H-10	Q1901	M-13	R2716	L-10	R3134	I-9	R7501	I-7		
C3117	J-10	Q1902	M-13	R2717	K-10	R3135	H-10	R7502	I-7		
C3118	J-11	Q1903	L-14	R2721	M-6	R3138	J-10	R7503	I-7		
C3122	H-8	Q2301	K-6	R2722	M-6	R3140	H-10	R7504	I-9		
C3125	J-10	Q2701	L-10	R2723	N-8	R3144	H-11	R7505	I-9		
C3126	H-8	Q2702	L-11	R2726	M-9	R3145	H-7	R7506	I-9		
C3127	J-7	Q2703	L-10	R2728	M-10	R3151	J-7	R7507	I-7		
C3128	H-11	Q2704	N-6	R2729	M-10	R3152	J-8	R7508	H-7		

DBX STEREO BOARD - TOP VIEW



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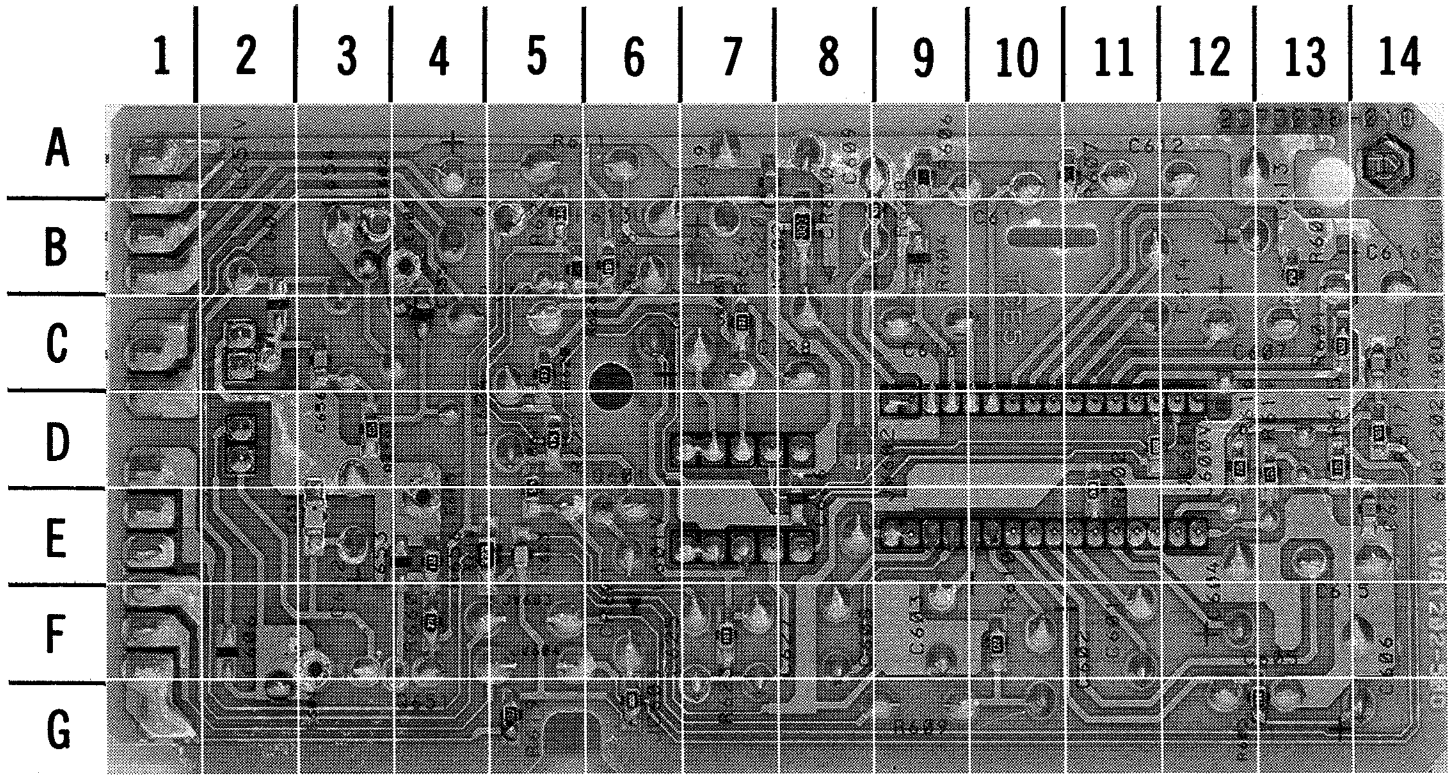
DBX STEREO BOARD - BOTTOM VIEW



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DBX STEREO BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C1601	F-4	C1607	C-2	C1613	A-2	C1619	A-8	C2654	B-12	R1609	G-6
C1602	F-5	C1608	F-7	C1614	B-3	C1624	D-10	CR1600	B-7	R1611	A-11
C1603	F-6	C1609	A-7	C1615	E-1	C1625	F-8	CR1601	F-9	R1612	C-10
C1604	E-3	C1610	C-6	C1616	B-1	C1627	F-8	FL2651	E-13	R1613	B-9
C1605	G-2	C1611	A-5	C1617	C-9	C1628	C-8	Q1601	D-9	U1600	D-6
C1606	F-1	C1612	A-4	C1618	A-11	C2652	D-12	Q2651	F-12	U1601	D-8

DBX STEREO BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C1620	A-7	C2655	C-4	R1607	A-11	R1617	D-14	R1623	F-7	R2656	E-4
C1621	E-14	C2656	C-3	R1608	B-13	R1618	E-4	R1624	C-7	R2658	D-3
C1622	C-14	R1601	C-13	R1610	F-10	R1619	G-5	R1625	B-6	R2660	F-4
C1623	E-5	R1602	E-11	R1614	D-13	R1620	C-5	R1626	B-5		
C1626	E-8	R1603	G-13	R1615	D-13	R1621	D-5	R1627	B-5		
C2651	E-3	R1606	A-9	R1616	D-12	R1622	D-5	R1628	B-9		

PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
CR1	-	227355	-	-
CR1401, 02, 03	-	220638	-	NTE5014A
CR1404	-	164717	EGG519	NTE519
CR1600	-	225702	-	-
CR1601	-	164717	EGG519	NTE519
CR2702	-	164717	EGG519	NTE519
CR2901	-	164717	EGG519	NTE519
CR2902	-	164874	EGG177	NTE177
CR2903	-	164717	EGG519	NTE519
CR2904	-	232709	-	-
	-	201133	EGG519	NTE519
CR3102, 10	-	201133	EGG519	NTE519
	-	232709	-	-
CR3111	-	218987	-	-
	-	239195	-	-
CR3301	-	164717	EGG519	NTE519
CR3303	-	201133	EGG519	NTE519
	-	232709	-	-
# **CR4001** Thru # **CR4004**	-	147015	EGG125	NTE125
CR4101	-	164874	EGG177	NTE177
CR4102	-	176296	EGG125	NTE125
CR4103	-	164717	EGG519	NTE519
CR4104	-	215488	-	NTE136
CR4106	-	164589	EGG558	NTE558
CR4107	-	164590	EGG580	NTE580
CR4108	-	217306	-	-
CR4109	-	215490	-	-
CR4111	-	176296	EGG125	NTE125
CR4112	-	140971	EGG552	NTE552
CR4113	-	176296	EGG125	NTE125
CR4114	-	164874	EGG177	NTE177
CR4115	-	215491	-	-
CR4201	-	164717	EGG519	NTE519
CR4302	-	164717	EGG519	NTE519
CR4303	-	176296	EGG125	NTE125
# **CR4401**	-	140971	EGG552	NTE552
CR4501	-	155276	EGG116	NTE116
CR4701	-	241304	-	-
CR4702	-	176296	EGG125	NTE125
CR4704	-	234048	-	-
CR4705	-	176296	EGG125	NTE125
# **CR4901**	-	157301	EGG177	NTE177
# **CR4902**	-	159429	EGG5019T1	NTE5019T1
CR7101	-	215492	-	-
CR7102 (1)	-	-	-	-
CR7103 (1)	-	-	-	-
CR7105	-	215493	-	-
CR7106	-	215494	-	-
CR7107 (2)	-	-	-	-
CR7108 (2)	-	-	-	-

# For SAFETY use only equivalent replacement part.
(1) Part of CR7101 diode kit.
(2) Part of CR7106 diode kit.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
CR7109, 10	-	215493	-	-
CR7111 (2)	-	-	-	-
CR7112	-	215493	-	-
CR7113 (2)	-	-	-	-
CR7114 (1)	-	-	-	-
CR7301 (1)	-	-	-	-
CR7302 (2)	-	-	-	-
CR7303	-	215493	-	-
CR7304 (1)	-	-	-	-
CR7305 (2)	-	-	-	-
Q1401, 02	-	215495	-	-
Q1403, 04	-	215496	-	-
Q1405	-	215495	-	-
Q1601	-	192849	-	-
Q1901, 02, 03	-	215495	-	-
Q2301	-	215495	-	-
Q2651	-	223704	-	-
Q2701 Thru Q2705	-	215496	-	-
Q2901	-	215495	-	-
Q2903	-	215496	-	-
Q2904	-	215495	-	-
Q3101	-	215495	-	-
Q3102	-	215496	-	-
Q3301	-	215496	-	-
Q3302	-	223704	-	-
	-	229220	-	-
Q3303	-	215496	-	-
Q3304	-	215495	-	-
Q3305	-	215496	-	-
Q4101	-	157627	EGG54	NTE54
Q4103	-	223704	-	-
	-	229220	-	-
Q4105	-	146851	EGG287	NTE287
	-	223704	-	-
Q4106	-	215495	-	-
Q4301	-	146851	EGG287	NTE287
Q4302	-	215495	-	-
Q4401	2SD1878	191142	EGG2331	NTE2331
# **Q4901**	-	147665	EGG159	NTE159
Q5001, 02, 03	2SC3619	215497	EGG157	NTE157
Q5004	-	143806	EGG159	NTE159
	-	219025	EGG159	NTE159
Q7101, 02	-	200566	-	-
Q7401	-	215495	-	-
Q7402	-	215496	-	-
Q7403	-	215495	-	-
Q7404	-	215496	-	-
Q7501, 02	-	215495	-	-
Q7601	-	146848	EGG229	NTE229
U1	-	233858	-	-

# For SAFETY use only equivalent replacement part.
(1) Part of CR7101 diode kit.
(2) Part of CR7106 diode kit.

PARTS LIST continued

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R1, 2	100K 1% 1/4W	233856	-
R3	10K 1% 1/4W	241787	-
R4	26.1K 1% 1/4W	223944	-
R5	10K 1% 1/4W	241787	-
R6	26.1K 1% 1/4W	223944	-
R7	10K 1% 1/4W	241787	-
R8	26.1K 1% 1/4W	223944	-
# **R1401**	75 5% 1/4W	175756	QW075
# **R1402**	75 5% 1/4W	175756	QW075
	75 10% 1/4W	242904	QW075
# **R1403**	100 5% 1/4W	149602	QW110
	100 10% 1/4W	242629	QW110
# **R1404**	75 5% 1/4W	175756	QW075
# **R1405**	100 5% 1/4W	149602	QW110
	100 10% 1/4W	242629	QW110
# **R1406, 08**	2200 5% 1/4W	241050	QW222
	2200 20% 1/4W	237429	QW222
# **R1415, 21**	2200 20% 1/4W	238678	QW222
	2200 5% 1/4W	241050	QW222
# **R1422**	22 10% 1/4W	238678	QW022
	22 5% 1/4W	242911	QW022
R1601	43.2K 1% 1/10W	225704	-
R1602	61.9K 1% 1/10W	225705	-
# **R1613**	62 5% 1/2W	242066	QW062
R1614	1000 5% 1/10W	192100	-
	1000 2% 1/10W	197638	-
R1616, 19	1000 5% 1/10W	192100	-
	1000 2% 1/10W	197638	-
R1620	10K 5% 1/10W	195937	-
	10K 1% 1/10W	215217	-
R1623, 24	10K 1% 1/10W	215217	-
	20K 5% 1/10W	197470	-
	10K 5% 1/10W	195937	-
R1625	10K 5% 1/10W	195937	-
	10K 2% 1/10W	215217	-
# **R1907**	4.7 5% 1/4W	200197	QW4D7
# **R1908**	18 5% 3W	181234	3W018
# **R1909**	4.7 5% 1/4W	200197	QW4D7
R2656	1300 2% 1/10W	205340	-
R2658	1000 5% 1/10W	192100	-
	1000 1% 1/10W	197638	-
R2660	270 2% 1/10W	197623	-
R2704	1000 2% 1/10W	197638	-
R2705	1500 2% 1/10W	197628	-
# **R2709**	27K 5% 1/2W	206037	HW327
	27K 10% 1/2W	238958	HW327
R2721	1500 2% 1/8W	181482	-
R2722	1000 2% 1/10W	197638	-
R2728	470K 2% 1/10W	205381	-
R2729	240K 2% 1/8W	215687	-
R2732	1000 1% 1/4W	179753	-
R2801	15K 1% 1/10W	215198	-
R2802	15.8K 1% 1/10W	215199	-

# For SAFETY use only equivalent replacement part.

CONTROLS & RESISTORS continued

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R2906	330 2% 1/10W	195929	-
R2929	75 2% 1/10W	197629	-
R2930	39 2% 1/10W	205322	-
R3343	5100 2% 1/4W	175417	QW251
# **R4001**	2.7 10% 15W Wirewound	190487	-
# **R4002**	2.7M 10% 1/2W	217662	HW527
# **R4113**	75 5% 2W Wirewound	205066	-
# **R4135**	27 2% 1/2W	242063	HW027
R4303	5100 2% 1/4W	175417	QW251
R4305	6200 5% 3W	179252	3W262
# **R4401**	15K 5% 1W	190557	1W315
# **R4403**	820 5% 1W Nonflammable	175349	1W182
# **R4507**	1.5 5% 1W	178619	1W1D5
# **R4511**	1 10% 2W Wirewound	215577	2W1D0
# **R4701**	10 10% 1/2W	241261	HW010
# **R4702**	2 5% 2W Wirewound	190720	-
# **R4703**	3 5% 3W Wirewound	215212	-
# **R4704**	82K 10% 1/2W	239116	HW382
# **R4705**	100 5% 1/4W	198667	QW110
# **R4901**	100 5% 1/4W	198667	QW110
# **R4902**	28K 1% 1/4W	195731	-
# **R4903**	39.2K 1% 1/4W	190469	-
# **R4904**	10K 5% 1/4W	175317	QW310
# **R4905**	5100 2% 1/4W	175417	QW251
R7401	191K 1% 1/10W	215214	-
R7408	37.4K 1% 1/10W	215215	-
R7411	1M 1% 1/10W	215216	-
R7501, 02, 03 (1)	10K 1% 1/10W	215217	-
R7501, 02, 03 (2)	100K 1% 1/10W	215221	-
R7504, 05, 06 (1)	26.1K 1% 1/8W	215218	-
	26.1K 0% 1/8W	181161	-
R7507	14.3K 1% 1/10W	215219	-
R7508	453 1% 1/8W	215220	-
R7509	15.8K 1% 1/10W	215199	-
R7510	100K 1% 1/10W	215221	-
R7512	15.8K 1% 1/4W	181121	-
R7513	100K 1% 1/10W	215221	-
R7515	15.8K 1% 1/4W	181121	-
R7516	100K 1% 1/10W	215221	-
RN4501	Resistor Network	215499	-
# **RT4201**	4.9 Cold PTC	207768	-

# For SAFETY use only equivalent replacement part.
(1) Used without micro adapter board.
(2) Used with micro acapter board.

PARTS LIST continued

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
U2	-	215534	-	-
# **U1001**	LA7610	215524	-	-
U1600	CXA1734S	225700	-	-
U1601		204292	-	-
U1901	TDA7263	215526	-	-
U2901	M50575ASP	204279	-	-
	-	227426	-	-
U2902	LH5268A-10LL	204280	-	-
U2903	L7805ACV	215528	-	-
U3101 (3)	-	223909	-	-
U3101 (4)	-	-	-	-
U3201	-	228907	-	-
U4101	STK730-130	215530	-	-
U4102	L7812CV	162394	EGG966	NTE966
U4501	TDA8172	215531	EGG1788	NTE1788
U7301	CXA1594L	215532	-	-
U7401	-	215533	-	-
U7501	-	215534	-	-

# For SAFETY use only equivalent replacement part.
(3) Used without micro adapter board.
(4) Used with micro adapter board.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C1601, 08	4.7µF 20% 35V NP	224269
C1610, 14	4.7µF 20% 35V NP	224269
C1621, 22	22pF 5% 50V NPO	194903
C1623	.001 5% 50V N750	224274
C2302	470pF 5% 50V NPO	214732
C2654	3.3µF 20% 50V NP	224270
C2656	120pF 5% 50V NPO	194902
C2718	220pF 5% 50V NPO	205551
C2803	16pF 2% 50V NPO	214736
C2910	27pF 5% 50V NPO	174407
C2917	47pF 5% 50V NPO	210689
C2918	15pF 5% 50V NPO	200538
C2924	33pF 5% 50V NPO	194911
C2930, 32	100pF 5% 50V NPO	193340
C2935	68pF 5% 50V NPO	193339
C2936	10pF 5% 50V NPO	200537
C2938	100pF 5% 50V NPO	193340
C3101, 02	100pF 5% 50V NPO	193340
C3107	68pF 5% 50V NPO	-
	27pF 5% 50V NPO	197604
C3110	100pF 5% 50V NPO	193340
C3114, 15	27pF 5% 50V NPO	197604
C3116	100pF 5% 50V NPO	193340
C3122	220pF 5% 50V NPO	178188
C3128	56pF 10% 50V NPO	222396
C3306	22pF 5% 50V NPO	194903
C3307	47pF 5% 50V NPO	210689
C3311	82pF 5% 50V NPO	192049
C3313, 14	22pF 5% 50V NPO	194903
C3316	200pF 5% 50V NPO	218986
# **C4001**	.22 20% 275V	233217
	.22 20% 125V	214067
# **C4003, 04**	680pF 20% 1kV	190538
# **C4006**	470pF 20% 1.8kV	-
	470pF 20% 120V	250102
# **C4007**	680µF 20% 200V	190560
# **C4008**	.005 20% 120V	195697
# **C4009, 10**	680pF 20% 1kV	190538
# **C4101**	150µF 20% 16V	161027
# **C4105**	10µF 20% 200V	226507
	10µF 20% 200V	214743
	22µF +30-10% 200V	225667
# **C4107**	100µF +30% -10% 250V	218374
# **C4122**	.033 5% 630V	-
	.033 5% 400V	214747
C4126	.001 10% 1kV	160461
C4303	470pF 5% 50V NPO	214732
C4310	15pF 1% 250V NPO	223899
C4311	47pF 5% 50V NPO	210689
C4313	220pF 5% 50V NPO	178188
C4401	470pF 5% 50V NPO	195918

# For SAFETY use only equivalent replacement part.

CAPACITORS & ELECTROLYTICS continued

Item No.	Rating	Mfr. Part No.
# **C4402**	.0115 2% 1.6kV	223177
# **C4403**	.43 5% 250V	218369
# **C4404**	2.2µF 20% 200V	196050
# **C4405**	.0047 10% 250V	190534
# **C4406**	470pF 5% 2kV	227068
	470pF 5% 1.5kV N1500	143242
C4702, 04	680pF 20% 1kV	190538
C4706, 08	680pF 20% 1kV	190538
C4710	.01 20% 1kV	137583
# **C4904**	.22 +80% -20% 25V	214739
C5001	.001 10% 3kV	120696
C5005, 06, 07	100pF 5% 50V NPO	174412
C7102	4pF +0pF -.25pF 50V NPO	214757
C7103	22pF 5% 50V NPO	194903
C7104	120pF 5% 50V NPO	194902
C7105	.75pF ±.25pF 50V NPO	214758
C7108	27pF 5% 50V N750	214760
C7113	100pF 5% 50V NPO	193340
C7118	22pF 5% 50V NPO	194903
C7124	27pF 5% 50V NPO	197604
C7127	120pF 5% 50V NPO	194902
C7136	75pF 5% 50V NPO	192061
C7139	20pF 2% 50V N220	214761
C7140	4pF ±.5pF 50V NPO	194901
	6pF ±.25pF 50V NPO	227250
C7149	22pF 5% 50V NPO	194903
C7150	150pF 5% 50V NPO	214032
C7151	20pF 5% 50V NPO	220150
C7152	43pF 5% 50V NPO	214029
C7153	39pF 5% 50V NPO	202905
C7301, 02	1.5pF ±.1pF 50V NPO	223146
C7304	68pF 2% 50V NPO	214762
C7305	39pF 2% 50V NPO	215556
C7306	68pF 2% 50V NPO	214762
C7307	10pF 5% 50V NPO	200537
C7308	5.6pF ±.25pF 50V N750	214764
C7309	10pF 2% 50V NPO	214765
C7310	8pF ±.5pF 50V N750	214766
C7311	5pF ±.5pF 50V NPO	193917
C7312	3pF ±.5pF 50V NPO	214767
C7313	10pF 5% 50V NPO	200537
C7316	8pF ±.5pF 50V NPO	194909
C7322	68pF 2% 50V NPO	214762
C7323	7pF 2% 50V NPO	214768
C7404, 05	68pF 5% 50V NPO	193339
C7410, 11	10pF 5% 50V NPO	200537
C7604	22pF 5% 50V NPO	194903
C7605	27pF 5% 50V NPO	197604

# For SAFETY use only equivalent replacement part.

PARTS LIST continued

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
FB2901, 02, 03	Ferrite Bead	153328
FB3101, 03, 04	Ferrite Bead	153328
FB4102	Ferrite Bead	161237
FB4106, 07	Ferrite Bead	154322
FB4108, 09	Ferrite Bead	154042
FB4110, 11	Ferrite Bead	215546
FB4112, 13	Ferrite Bead	154042
FB4401	Ferrite Bead	161237
FB4501	Ferrite Bead	215547
L2302	VCO	215502
L2304	2.2µH	197616
L2701, 02, 03	2.2µH	197616
L2704	10µH	175409
L2901	82µH	215503
L2903	68µH	215548
L3101	10µH	161243
L3102	100µH	160186
# **L4000** (1)	Yoke Horiz 1.3mH Vert 17.8mH	-
# **L4001**	Line Filter	190507
L4101	10µH	175409
L4102	22µH	215504
L4103, 04	10µH	175409
# **L4201** (2)	Degaussing	218764
# **L4201** (3)	Degaussing	214679
L4401	4µH	215505
# **L4402**	Horizontal Linearity	192844
L5001	120µH	195750
L7101	-	215507
L7102	-	236641
L7103	-	223929
L7104, 05	-	223917
L7106	-	215509
L7107	-	215510
L7108	-	215511
L7109	3.9µH	200559
L7110	-	223288
L7111	-	215512
L7112	-	231441
L7113	-	215514
L7114	-	231441
L7115	-	215515
L7116	-	243162
L7117	-	237460
L7118	-	237461
L7301	-	223928
L7302	-	231444
L7303	-	215510
L7304	-	223920

# For SAFETY use only equivalent replacement part.

(1) Bonded part of CRT.

(2) Used in models F27676BCYX1, F27678BCFE1, and F27678CYX1.

(3) Used in model F25675BCYX1.

COILS & TRANSFORMERS continued

Item No.	Function/Rating	Mfr. Part No.
L7305	-	231447
L7306	-	231448
L7601	-	195708
# **T4101**	Switch Mode	221948
# **T4301**	Horizontal Driver	215541
# **T4401** (4)	Horizontal Output	215539

# For SAFETY use only equivalent replacement part.

(4) Focus and screen controls are part of T4401.

CABINET PARTS

Item	Mfr. Part No.
Model F25675BCYX1	
Button Cap	243347
Mask and Cabinet Back	MK2194
# Overlay, Jack Panel	215571
# Tray Chassis	215575
Window IR	234026
Model F27676BCYX1	
Button Cap	239222
Mask and Cabinet Back	MK2013
# Overlay, Jack Panel	215571
# Tray Chassis	215575
Window IR	234553
Model F2768BCFE1	
Button Cap	238305
Mask and Cabinet Back	MK2084
# Overlay, Jack Panel	215571
# Tray Chassis	215575
Window IR	234026
Model F27678BCYX1	
Button Cap	238305
Mask and Cabinet Back	MK2084
# Overlay, Jack Panel	215571
# Tray Chassis	215575
Window IR	234026
Remote Transmitter	
Battery Door	224263

# For SAFETY use only equivalent replacement part.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF1201	Filter	195702	4.5MHz
# **F4001**	Fuse	175425	5Amp, 125V, Fast Acting
FL2651	Filter	225701	Comb
FL7102	Filter	181470	High Pass
IR3401	Receiver	229218	Remote, GP1U78QC
IR3401	Receiver	229218	Remote, GP1U780G
IR3401	Receiver	229218	Remote, GP1U527Q
IR3401	Receiver	229218	Remote, TFMS556
J1401, 03, 04	Jack	239389	Assembly
J1402	Jack	195705	SVHS
J1405, 06	Jack	215545	Assembly
J7101	Jack	215543	RF Input
# **K4201**	Relay	190490	Degaussing
# **KS5001**	Socket	189986	CRT
	Socket	228946	CRT
# **P101**	Line Cord	215576	AC, Polarized
# **P HORIZ**	Connector	242205	Yoke
# **P VERT**	Connector	242206	Yoke
SF2301	Filter	217318	SAW
SP1901, 02 (1)	Speaker	233442	2 1/4" X 3 1/2", 32 Ohms, 1.5W
SP1901, 02 (2)	Speaker	225844	2 1/4" X 5", 32 Ohms
SW3410	Switch	215500	Channel Up
SW3411	Switch	215500	Power
SW3420	Switch	215500	Channel Down
SW3421	Switch	215500	Volume Up
SW3430	Switch	215500	Menu
SW3431	Switch	215500	Volume Down
# **V101** (3)	CRT	H68ADT271	A68ADT27X01
# **V101** (4)	CRT	H63ADT155	A63ADT15X05
Y2801	Crystal	161235	3.58MHz
Y2901	Crystal	197652	14.32MHz
Y3101	Crystal	217322	8MHz
Y7401	Crystal	230708	4MHz
	Fuse Holder	176642	For F4001 (2 Used)
	PC Board (5)	225755	CRT
	PC Board (5)	223955	DXB Stereo
	PC Board (5)(6)	-	Micro Adapter, 2F25019-01A
	Transmitter	241035	Remote, CRK74AA3

# For SAFETY use only equivalent replacement part.

(1) Used in models F25675BCYX1 and F27676BCYX1.

(2) Used in models F27678BCFE1 and F27678BCYX1.

(3) Used in models F27676BCYX1, F27678BCFE1, and F27678BCYX1.

(4) Used in model F25675BCYX1.

(5) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.

(6) Not stocked.